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CRITICAL REVIEW.

A U G U S T, 1800.

An Account of an Embassy to the Kingdom of Ava, sent by the Governor-general of India, in the Year 1795. By Michael Symes, Esq. Major in his Majesty's 76th Regiment. 4to. 21.25. Boards. Nicol. 1800.

THE enterprises of commerce have in no age added a more interesting discovery to our geographical knowledge than the embassy of major Symes now offers. It is not indeed that of a new continent: it is not distinguished by the splendor of conquest, or by the brilliancy of acquired returns, but adds an important link to the geography of the Eastern nations, and, in a commercial view, may prove more valuable than the mines of Peru or Golconda

On the east of the Ganges, the piratical attempts of the inhabitants of the shores of Aracan had attracted the attention. of the government of Bengal; and the contests on the north, between the Chinese and some warlike hordes of the mountains, had led to the knowledge of a nation different both from the Hindoos and Chinese; while, on the south, the supply of teak in the river of Pegu, and the unsuccessful attempts to form a commercial connection with its government, had led to little more than the knowledge that a kingdom styled Ava existed. It is now ascertained, that between Cochin-China and Bengal is comprehended a country extending more than 18 degrees of fouth latitude, divided into the kingdoms of Siam, Pegu, Ava, and Aracan, watered by a river which rifes. in the mountains of Tartary, near the sources of the Ganges and Burampooter, and inhabited by a generous, spirited, and warlike race. The river has probably a more extensive course than any other yet known, (unless it should be ultimately afcertained that the Niger and the Nile are the fame) and is navigable for ships of burthen through a great part of its course. Its embouchure is near the Gulf of Martaban, where thas formed a delta of probably acquired land, a gulf (if we may trust to Gosselin, whose opinions are in general well sup-CRIT. REV. VOL. XXIX. August, 1800. 2 C

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ported) beyond which the geographical knowledge of the ancients scarcely extended, and which, by the moderns, has been mistaken for the Gulf of Siam. The whole of the Birman empire, for this we shall find to be its present designation, is apparently fertile, watered by numerous rivers, though probably with few harbours, except where the coast recedes from Cape Negrais eastward, to receive the divided waters from the Delta of the Irrawaddy, and the streams of the Setang, near Martaban. Such is the country which major Symes visited, and with which he has probably succeeded in forming an amicable intercourse.

The fituation of Bengal and particularly its marine, which required a supply of teak, the oak of India, which the coast of Malabar could only, by a tedious navigation, afford, suggested to lord Teignmouth the propriety of a new attempt, for one had failed, to open a friendly intercourse with the Birman empire. The judicious and enlightened policy which suggested this plan, was ably seconded by the temper and good sense of major Symes, who has given an excellent account of

this kingdom and of his own attempts.

Of the kingdom of Ava, or the Birman empire, so little is known to the European world, that many persons of liberal education, when the name of the country has been mentioned, were at a loss on what part of the globe to seek for its position; and some were even unacquainted with the existence of such a nation.

This obscurity renders any apology for introducing my work to the public, unnecessary; and I have only to lament my own inability to do justice to so important a subject. The military profession, in every part of the world, is unpropitious to literary attainments; but in India, where no repositories of European learning are to be found, and armies are continually moving over a vast region, it can hardly be expected that the soldier and the scholar should be united. It has been my lot to serve in that distant country from an early age, until I attained the meridian of life; and it may perhaps soften criticism that I aspire not to the ornaments of language, and little aim at a polished structure of style: I have written my own book; my chief object is to be intelligible, and my single claim, to be believed.' P. vii.

The four kingdoms are now united under a Birman prince, whose liberal policy we have had occasion to commend in our review of the fifth volume of the Asiatic Researches*. The ultimate conquests of Alompra, after alternate successes and deseats, are well described in our author's historical memoir. Even though it is an Indian narrative, we read it with pleasure and interest. Some of the events of this war were injurious to

^{*} See our XXVIIIth Vol. New Arr. p. 382.

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the British character; for our countrymen seem to have violated the good saith which has been their distinguished boast; and such conduct occasioned their loss of the establishment they had formed at the mouth of the Irrawaddy. Yet various other concurring circumstances contributed to deprive them of this settlement, though these, without the connivance of Alompra, would not probably have had any effect. The character of this usurper or successful warrior, for each party will give him a different appellation, is very ably drawn. He seems to have combined an undaunted spirit with cool policy; to have been cruel in the moment of uncertainty, and to have yielded to more amiable feelings when opposition was no more. He appears liberal, judicious, and candid, if we wholly acquit him, as major Symes is inclined to do, of the injuries

done to the English.

The precise limits of the Birman empire cannot be afcer-The present monarch has added Aracan, on the west, to his dominions, and the Siamese have been compelled to yield the sea-ports of Tavoy and Mergui, but they retain their independence in the internal parts, and have for their eaftern neighbours the Cochin-Chinese. On the north and the north-east, the Birman territory is less accurately limited; and the province of Yunan, connected occasionally with the Birman monarch, preserves a doubtful and precarious independence, under the nominal dominion of China. Did not the immense force of the English empire in India preis on the western frontier of the Birman kingdom, it would foon be a formidable rival to China. At prefent, should the English, refenting the fulpicious and infulting politics of the court of Pekin, choofe to join the monarch of Ava, by their united powers they might dictate their own terms of commerce and alliance. respectable force in Oude on the north-west, and a firm connexion with the Birman empire on the east, the English interests in India would be invulnerable.

The Birmans, under their present monarch, are certainly rising fast in the scale of Oriental nations; and, it is to be hoped, that a long respite from foreign wars, will give them leisure to improve their natural advantages. Knowledge increases with commerce; and as they are not shackled by any prejudices of casts, restricted to hereditary occupations, or forbidden from participating with strangers in every social bond, their advancement will, in all probability, be rapid. At present, so far from being in a state of intellectual darkness, although they have not explored the depths of science, or reached to excellence in the siner arts, they yet have an undeniable claim to the character of a civilized, and well instructed people. Their laws are wise, and pregnant with sound morality; their police is better regulated than in most European countries;

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their natural disposition is friendly, and hospitable to strangers; and their manners rather expressive of manly candour, than courteous diffimulation: the gradations of rank, and the respect due to station. are maintained with a fcrupulofity which never relaxes. A knowledge of letters is so widely diffused, that there are no mechanics. few of the peafantry, or even the common watermen (usually the most illiterate class) who cannot read and write in the vulgar tongue. Few, however, are versed in the more erudite volumes of science, which containing many Shanscrit terms, and often written in the Pali text, are (like the Hindoo Shafters) above the comprehension of the multitude; but the feudal system, which cherishes ignorance, and renders man the property of man, still operates as a check to civilization and improvement. This is a bar which gradually weakens, as their acquaintance with the customs and manners of other nations extends; and unless the rage of civil discord be again excited, or fome foreign power impose an alien yoke, the Birmans bid fair to be a prosperous, wealthy, and enlightened people.' P. 122.

Major Symes embarked at Calcutta, and vifited the Andamans, which connect the chain of islands from Cape Negrais to Atcheen Head, the northern peninfula of Sumatra, where it is separated from the peninsula of Malacca, the southern continuation of the kingdom of Siam. This chain of islands once certainly formed a part of the continent, but they were feparated from it by the encroaching ocean; for, as usual, on the west, we find the great western mountains, those which divide the kingdom of Aracan from that of Birman, close on the sea. Of the Andaman islands we have had occasion to give some account, in our review of the Asiatic Researches. barism of the inhabitants is scarcely equaled, even on the gloomy coasts of New Zealand; and the small European garrison or colony, stationed for the purpose of affishing the crews of the ships which fly to its harbour as a shelter during the continuance of the north-eastern monfoon, will scarcely have sufficient influence to reclaim or civilise them.

The Andamaners are not more favoured in the conformation of their bodies, than in the endowments of their mind. In stature, they seldom exceed five feet; their limbs are disproportionably stender, their bellies protuberant, with high shoulders and large heads; and, strange to find in this part of the world, they are a degenerate race of negroes*, with woolly hair, stat noses, and thick

^{*} It is a matter of much curiofity to discover the origin of a race of people so widely differing, not only from all the inhabitants of that vast continent in the bosom of which the island of Andaman is embayed, but a so from the patives of the Nicobar islands, which are immediately contiguous to it. Hitherto, the inquiries of travellers seem to have produced no facisfactory conclusion: some bave supposed that a Portugu se ship, early in the 16th century,

lips; their eyes are small and red, their skin of a deep footy black, whilst their countenances exhibit the extreme of wretchedness: a horrid mixture of famine and ferocity. They go quite naked, and are infentible of any thame from exposure. Two young women, allured by the temptation of fish, were secured, and brought on board a ship at anchor in the harbour: the captain treated them with great humanity; they foon got rid of all fear of violence, except what might be offered to their chastity, which they guarded with unremitting vigilance: although they had a small apartment allotted to themselves, and had no real cause for apprehension, one always watched whilst the other slept; they suffered clothes to be put on, but took them off again as foon as opportunity offered, and threw them away as useless incumbrances. When their fears were over they became cheerful, chattered with freedom, and were inexpressibly diverted at the fight of their own persons in a mirror; they were fond of finging, fometimes in melancholy recitative, at others in a lively key; and often danced about the deck with great agility, flapping their posteriors with the back of their heel. Wine and spirituous liquors were disagreeable to them; no food seemed so palatable as fifth, rice, and fugar. In a few weeks, having recovered strength and become fat, from the more than half-famished state in which they were brought on board, they began to think confinement irksome, and longed to regain their native freedom. In the middle of the night, when all but the watchman were alleep, they passed in filence through the captain's cabin, jumped out of the stern windows into the sea, and swam to an island half a mile distant, where it was in vain to pursue them, had there been any fuch intention; but the object was to retain them by kindness, not by compulsion, an attempt that has failed on every trial. Hunger may (and these instances are rare) induce them to put themselves in the power of strangers; but the moment that want is satisfied, no thing short of coercion can prevent them from returning to a way of life, more congenial to their favage nature. The few implements they use are of the rudest texture; a bow from four to five feet long. the string made of the fibre of a tree, or a slip of bamboo, with arrows of reed, headed with fish bone, or wood hardened in the fire, is their principal weapon. Besides this, they carry a spear of heavy wood marply pointed, and a mield made of bark, to defend

laden with flaves from Mosamb que, had been cast on these shores, and that the present Andamaners are the descendants of such as escaped drowning. This conjecture is proved to be grossly erroneous, from the account given by the two Manommedan travellers long anterior to the navigation of those seas by Europeans. The Arabians, however, who sailed on the Indian Ocean so early as the 7th century, and who not only explored the continent of India as far as the Chinese sea, but likewise gained a knowledge of most of the eastern islands, might, by an accident similar to that which has been ascibed to the Portuguese vessel, have peopled Andaman with its present negro race. It deferves remark, that on the continent of India extra Gangem, sigures of Boodh, or Budhoo, the Gaudma of the Birmans and Siamese, are often seen with the characteristic hair and seatures of the negro.

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themselves from the affaults of their enemies; for even these poor wretches have rights to affert, and dignities to maintain: necessity has taught them an expert management of their arms, on which they rely for subsistence: happily for them, their numerous bays and creeks abound with fish, which they shoot and spear with furprifing dexterity. They are faid also to use a small hand net, made of the filaments of bark; the fish when caught is put into a wicker balket, which they carry on their backs. Having kindled a fire, they throw the food on the coals, and devour it half broiled, A few diminutive swine are to be found in the skirts of the forests, and among the mangrove thickets in the low grounds; but there are very scarce, and are probably the progeny of a stock left by former navigators. When a native has the good fortune to flay one, he carefully preserves the skull and teeth to ornament his hut. They cross the bays, and go to fish either in canoes formed of a hollow tree, or on rafts of bamboo, which they direct by paddles. Their habitations display little more ingenuity than the dens of wild beafts; four flicks fluck in the ground, are bound together at the top, and fastened transversely by others, to which branches of trees are fuspended; an opening is left on one fide, just large enough to admit of entrance: leaves compose their bed. Being much incommoded by infects, their first occupation in a morning is to plaister their bodies all over with mud, which, hardening in the fun, forms an impenetrable armour; they paint their woolly heads with red ochre and water: when thus completely dressed, a more hideous appearance is not to be found in human form,' P. 130.

We may just observe, that there are so many traces of a negro or a black race in the earliest legends of the east, that we need not seek for the origin of the Andamaners in any accident. They were perhaps the aborigines, from whom the present Malays are descended, and must not be confounded, as by Volney, with the negro on the coast of Guinea, whose complexion is his slightest distinction. Their language is different from any spoken in India; their songs are wildly melodious, and their gesticulation, while singing, violent. In thort, those who wish to survey the varied traits of human nature, and men in the earliest stage of civilisation, should contemplate this very spirited and excellent account of the Andamaners.

Major Symes landed at Rangoon, a town conveniently situated for commerce, at the conflux of the eastern branch of the Irrawaddy, and the Siriam river, on which Pegu is built. The first reception was not cordial. The liberality of the Birman government had attracted many strangers, who feared that the English might acquire more influence than they chose to resign, or communicate more knowledge of commerce to the Birmans than would be consistent with their interest. The major, whose determined spirit was joined with a calm concili cee felt pro Ber gate of I

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ravages of war.

The remains of Pegu and its temple we have noticed in our review of the Afiatic Researches, where both are described in the words of the volume before us. The amusements, at the selval, are wrestling, boxing, dramatic entertainments, and the sportive game of scattering water on every passenger, which is conducted with some delicacy, in the apartments of the viceroy. Dramatic entertainments, which seem to vie in accurate representation with those of Calidas, close the scene; and the Birman actors appear to excel in pantomimic gesticulations. On his return, the major had still cause to regret the ravages of war; and, in a sporting excursion, he attracted the attention and excited the resentment of a herd of bussaloes, one of whom pursued him, apparently from a dislike of the red colour of his uniform, which he threw off and escaped.

Of Rangoon, to which our author returned, he gives a general description, particularly of the great temple, the Shoedagon, and of the rhahaans, or priests, of whose piety and general good conduct his account is favorable. In the civil or religious departments of Ava there are not, he observes, any concealments. Of Seredaw, the chief of the rhahaans, he had formed an advantageous opinion, but was disappointed on conversing with him, as he discovered the little vanity of a weak mind. Of a singular race, the Carayners, we shall se-

lect his account,

From this reverend father I received much useful information; he told me of a singular description of people called Carayners, or Carianers, that inhabit different parts of the country, particularly the western provinces of Dalla and Bassien, several societies of whom also dwell in the districts adjacent to Rangoon. He represented them as a simple, innocent race, speaking a language distinct from that of the Birmans, and entertaining rude notions of religion. They lead quite a pastoral life, and are the most industrious subjects of the state; their villages form a select community, from which they exclude all other sects, and never reside in a city, intermingle, or marry with strangers. They profess, and strictly observe, universal peace, not engaging in war, or taking part in contests for dominion, a system that necessarily places them in a state of subjection

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to the ruling power of the day. Agriculture, the care of cattle, and rearing poultry, is almost their only occupation. A great part of the provisions used in the country is raised by the Carianers, and they particularly excel in gardening. They have of late years been heavily taxed and oppressed by the great Birman landholders, in consequence of which numbers have withdrawn into the mountains of Arracan. They have traditional maxims of jurisprudence for their internal government, but are without any written laws: custom, with them, constitutes the law. Some learn to speak the Birman tongue, and a few can read and write it impersectly. They are timorous, honest, mild in their manners, and exceedingly hospitable to strangers.' P. 207.

The Carayners are not to be found higher up than Prome. The population of Rangoon is estimated at 30,000 persons; for, as the liberality or policy of the emperor tolerates with equal kindness every religion, and receives the outcasts from every nation, the motley multitude must necessarily be numerous. The religion of Birman is that of Budha; but the people respect the brainins, and think them greatly superior to their own thahaans. As teak is in plenty on the banks of the river, down which it may be easily conveyed, ship-building stourishes at Rangoon; and the situation on a flat shore, where the tide rises twenty feet, renders the construction of docks very easy.

On the 29th of May our author embarked for Ummera--poora in a convenient barge. The narrative of the vovage contains no very remarkable events. The weather, which was at Rangoon very warm, became cooler on the river; but the thermometer fell from 98° only to 90. The river in general passed through a level country, to which it added greatly on one fide, gaining as usual on the more abrupt bank, resembling in this respect, the Ganges and Burampooter. The Birman boatmen are hardy and active: indeed they very little refemble other Afiatics, whose indolence is well known, and whole greatest exertions are comparatively trifling. Nearly about 18° 50', the latitude of Prome, a place celebrated for numerous fieges in the military history of the Birman empire, the country rifes in hills, some of which appear conical; and, after a journey of two days to the north, the travellers vifited the impression of the foot of Gaudma (Budha). This, though styled a foot, 18 rather a parallelogram, rounded at the part supposed to represent the heel, on which two ferpents are figured. Some rude ornaments offer the semblance of toes; but the most remarkable circumstance is, that the impression is on a granite, and the middle of the stone is covered by hieroglyphics, which do not appear to refemble, in any striking manner, those of Egypt. We in no part recognise the ibis; but the elephant is occationally

conspicuous: a great number of these figures are representations of things inanimate. The tradition is, that Gaudina placed one soot of Ceylon, and the other on the continent; but it must be remembered, that the foot on Ceylon is styled that of Adam, the first of men: it is visited, however, with great veneration, and, from the meaning of Adam, this appellation may have been one of the titles of Gaudina.

Loonghee, or Great Cable, takes its name from the following circumst nce: a curious ligament of stone unites a pointed rock. which rifes in the middle of the stream, with the opposite bank; it has the appearance of a petrified cable, and the natives relate. that one hundred years ago a large rope, floating down the river. ceased its course at this place, and that one end adhering to the rock, and the other to the bank, the rope was changed into stone. They also say that the opposite island formerly constituted a part of one fituated fifteen miles higher up, but was fevered from it by an earthquake, and carried down to the place where it now rests. quality which the waters of the Irrawaddy possess of changing wood into stone, of which we afterwards faw innumerable instances, renders the transmutation of the cable by no means an impossible circumstance. The Birmans, however, are deeply tainted with that credulity which ignorance is ever disposed to pay to tales of fiction. and to miraculous events,

Whether removed by an extraordinary convultion of nature. and by a still more extraordinary transportation, or whether encircled by the river from the disposition that all large streams flowing through a level country have to change their channel; whatever may have been the cause, the island now constitutes a principal object in one of the finest sylvan scenes I ever beheld, temple above Loonghee, that stands by the river side, on a commanding cliff whose summit overhangs its base, the eye is gratified by a most delightful combination of natural beauties; a fine sheet of water three miles in breadth, broken by an island about a mile long and half a mile wide, covered with trees of luxuriant foliage; eminences on the opposite shore, that rife from gently swelling grounds clothed in wood, to brown and rugged mountains, which receding in an oblique direction, leave to the view a long and level plain: these altogether form a landscape which I never saw equalled, and, perhaps, is not to be excelled. How much I regretted that my draftsman, though Rilful in copying figures and making botanical drawings, was unaccominted with landscape painting and perspective, and that not one of therfelves possessed any knowledge of that delightful art, Had Mr. Daniel, in his Oriental Travels, vifited this part of the world, the view from Loonghee would have stood conspicuous among those faithful and excellent representations by which he has locally introduced India into England, and familiarised the European eye to the rich scenery of the east.' P. 251.

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As our travellers advanced, the country assumed a more rocky appearance, and was more barren. The stone was chiefly siliceous, and petrified wood, composed of different lamine, was brought to them, which however may be only a peculiar form of quartz. In this neighbourhood were the wells of petroleum, which supply the whole empire and a great part of India with this useful production. Fertility soon returned; and major Symes approached on the west the great chain of mountains which separate Aracan from the Birman empire. In this part the tea plant is found, but of an inferior

quality to that of China, and used only as a pickle.

In latitude 210 32 the Irrawaddy receives, from the north. west, the streams of the Keenduen, which, at the junction, is nearly a mile wide. The war boats which met major Symes from Ummera-poora were rowed by Cassayers, probably from the country which the ancients called Cathay, and which we have supposed to mean China. The character of the features is foster, and resembles more the Bengal countenance. people, according to the eastern fystem, were brought from their native country while young, when, as it is justly obferved, the human race will affimilate to any foil; but our author prudently avoided asking them any questions, as a suspicious jealousy still seemed to attend all his motions. At Summei-kioum, not far distant from Ava, is the manufactory of falt-petre and gunpowder, which cannot be exported under any plea, and of which the smallest quantity cannot be fold without a special licence for that purpose. The king is also proprietor of all the elephants in his dominions, and is faid to possess 6000. The privilege to ride on or keep one of these animals is granted only to men of the very first rank and consequence.

On the approach to the capital, towns and villages became more frequent; and the river, influenced by the rains in the higher regions, began to swell, though all around was dry and parched. Either from superstition or some political reason, the present emperor had removed the seat of empire from Ava farther to the north and east. As the houses are chiefly of wood, they are soon transported; and the ancient capital is almost

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^{&#}x27;In the morning I took a hasty view of Aungwa, or Ava; it is divided into an upper and lower city, both of which are fortified; the lower, which is the most extensive, I judged to be about four miles in circumference; it is protected by a wall thirty feet high, at the foot of which there is a deep and broad fosse. The communication between the fort and the country is over a mound of earth crossing the ditch, that supports a causeway; an embankment of earth in the inside sustains the wall; the upper or smaller fort, which may be called the citadel, and does not exceed a mile in cir-

cuit, was much stronger, and more compact than the lower, but neither the upper nor the lower had a ditch on the fide of the river. The walls are now mouldering into detay; ivy clings to the fides, and bushes, fuffered to grow at the bottom, undermine the foundation, and have already caused large chasms in the different faces of the fort. The materials of the houses, consisting chiefly of wood, had, on the first order for removing, been transported to the new city of Ummerapoora: but the ground, unless where it is covered with bushes, or rank grafs, still retains traces of former buildings and freets. The lines of the royal palace, of the lotoo, or grand council hall, the apartments of the women, and the spot on which the pialath, or imperial spire, had stood, were pointed out to us by our guide. Clumps of bamboo, a few plantain trees, and tall thorns, occupy the greater part of the area of this lately flourishing capital. We observed two dwelling houses of brick and mortar, the roofs of which had fallen in; these, our guide faid, had belonged to colars, or foreigners: on entering one, we found it inhabited only by bats, which flew in our faces, whilst our fense of smelling was offended by their filth, and by the noifome mildew that hung upon the walls. Numerous temples, on which the Birmans never lay facrilegious hands, were dilapidating by time, It is impossible to draw a more friking picture of desolation and ruin,

Among the religious buildings within the fort, one named shoegunga praw, no ways distinguished for size or splendour, was in former times held peculiarly sacred, and is still reverenced above the rest. At the present day, when an officer of rank is about to enter on a great public trust, or a new commander is appointed to the army, the oath of allegiance is administered in this temple with great solemnity, a breach of which is considered the most heinous crime a Birman can be guilty of, and is invariably punished by the severest tortures. How shoegunga obtained this distinction I was not able to learn. We were informed that a temple of much greater magnitude, named logatherpoo praw, stood a short distance to the westward of the fort, in which was a colossal figure of Gaudma, formed out of a solid block of marble. This temple and image we had a better opportunity of viewing on our return.

P. 279.

As we find that the whole of this work will detain us too long, we shall resume our account of it in another article.

(To be continued.)

The Afiatic Annual Register; or, A View of the History of Hindustan, and of the Politics, Commerce, and Literature of Asia, for the Year 1799. 8vo. 12s. Boards. Debrett.

HISTORY scarcely presents an example of a dependence so wast, so distant, and so disproportioned to the parent state,

as the British possessions in India. Rome, though she stood alone, and possessed almost the whole of the known world, was yet, when in the zenith of her power, not merely a fingle cir on the Tiber, but the capital of Italy; and the appellation and privileges of a Roman citizen were diffused through ever conquered state with a politic liberality. Even however that time, the extent of the empire did not greatly exceed that of the present possessions of Britain in the East; and in modern times, the limited and precarious possessions of Holland in the Eastern Islands, the scattered dependencies of Spain in South America, and the very partially cult vated parts of North America, once under our dominion, bear a very inconfiderable proportion to the smiling cultivated plains of Asia, the depôt of the riches of the world. India has always accumulated whatever was rich and valuable; for the temperate and patient Hindoo is contented with little, and feels not the productions of three quarters of the world for his hum. ble meal, while his industry renders every foreign nation a tributary, and even the immense fums, drawn by allies or conquerors, feem scarcely to have impoverished this happy soil The ravages of war may, in a moment, annihilate the property of the Indian, or inclement feafons produce a temporary scarcity; but industrious patience soon supplies the desed; and, through a great part of the peninfula at least, war in all probability will not foon again disturb the quiet inhabitants In this state, the immense importance of India to Britain must render whatever relates to it valuable; and, to those who have returned from it after a residence of some years in their diferent departments, it will be very interesting. To contemplate the rifing fortunes of their affociates, the increasing influence of the country, and the growing prosperity of the whole, will be highly pleafing; and it will be even a melancholy fatisfaction to be relieved from suspense by intelligence respecting the fate of their friends, when they have reached that bourne from which no traveller returns.

In another view an annual collection of this kind will be valuable. Indian literature has lately engaged the attention of Europeans; and they have traced, from the records of the East, much of the mythology, and somewhat of the science of early Europe. Our information of this kind will probably not lessen; and though five volumes of Researches have been published, which may soon be followed by others, much will remain for humbler followers. Many who have returned from India pursue the studies which interested them in that country, and those who did not presume to offer their opinions at large in the Researches, may probably give hints, in a more concile form, in another publication. If, as has been reported, this

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metropolis should become the centre of the knowledge of Hindostan in the West, by the establishment of an oriental library, a work of this kind will neither want patrons nor assistants.

This volume, like its prototypes, the English Annual Regifters, collects into a focus the transactions, both military and civil, which occurred in India during the year, adding the state papers, and an account of the proceedings in the British parliament as well as in the parliament of India, the India-house. The biographical iketches, which follow, relate chiefly to persons who were connected with India, and who acted a diftinguished part on that scene. The miscellaneous tracts include what was once defigned for a separate head, viz. the accounts of voyages and travels; and contain various circumstances generally interesting, but particularly so to orientalists. poetry and account of books are equally appropriated. The editors have followed the example of the New Annual Regifter, by prefixing a history of India, which they intended to have brought down in this volume to the year 1708, the period of the union of the old and new East-India company; but, from the variety of new and important matter, they had room only for fo much of the history as reaches to 1603. Such is the general plan, which experience has fanctioned by the support that two Annual Registers in England have reteived. It remains only that we notice shortly its execution.

The History of Hindostan is written with neatness, and, in general, with accuracy; but the historian differs, without reason, from Sir William Jones (who supposes India to have been peopled from Pertia), and adopts the opinion of Mr. Orme, that the Hindoos were aborigines of the country. For this we could have withed that he had given some better reasons than those which he has borrowed from the historiographer of the company, and that he had noticed what captain Wilford has observed in the fifth volume of the Researches (mentioned in our present volume, p. 187), that the Bramins themselves confess a more western origin, and say that they descended into Hindostan through the plains of Haridwar. The early history of Hindostan is gloomy and distressing; intestine commotions, conquests, massacres, &c. arise in painful succession; and the æra at which this part closes, when the British flag first appeared in the Indian seas, is we trust an epoch of returning happiness and peace.

The chronicle is a miscellaneous detail of events; and in the state papers we find every material document, with a very valuable collection of those which relate to the conduct of the sultan Tippoo, and his wild impolitic connection with the French republic. No national transaction will restect more honour on this country and its ministers than their proceedings in the Mysorean war. Their calmness and caution in the

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previous negotiations were not less striking than their stell

and spirited conduct in the military operations.

Among the biographical characters and anecdotes are fift those of the late sultan of Mysore, collected from the account of one of his officers: a part of this we shall copy.

tution is much impaired; he is subject to two disorders, the frequent

return of which obliges him to take medicine daily.

He is from five feet eight to nine inches high; is now rather inclined to fat, although, a few years fince, he was very thin: his face is round, with large full eyes; and there is much animation and fire in his countenance: he wears whiskers, but no beard: he is very active, and sometimes takes long walks.

' He has eleven children, of whom only two are in marriage; the elder, a girl of seven years; the younger, a boy of four years.

the fecond, a fon of fifteen years—He is a girl of seventeen years, the second, a fon of fifteen years—He is a great savourite, and accompanies his father upon all occasions—his name is Gullaum Heyder. Another son, Abdul Khalic, is ten years old.

'His disposition is naturally cruel: his temper is passionate and revengeful; and he is prone to be abusive; and his words are false

and hypocritical, as fuit his purpofes.

"His policy, thus far differing widely from his father, has been ruinous to his revenues, as well as hurtful to his government. He professes himself Naib to one of the twelve prophets, who, the Mahommedans believe, are yet to come; and he persecutes all other casts, forcing numbers to become musfulmen. He is realous of, and prejudiced against, his father's favourites; most of whom he has removed from their offices, giving to fome leffer appointments, When compared to his father, his understanding and judgment are Supposed to be inferior: he is esteemed as good a foldier, but a less skilful general; and he is wanting in that great resource, which his father so eminently displayed in all cases of danger. His father discriminated merit, rewarded it liberally, and punished guilt with the utmost rigour of a despot: he gives little encouragement or reward; and he punishes more from the influence of passion and prejudice than from any attention to justice. His father was affiduous in gaining the attachment of his army: he is rather negligent of it; and being very parfimonious, he is led to impose upon his troops, whenever opportunities offer: he fometimes retains their pay for leveral months, and has his own focars to lend his money at an enormous interest, which is stopped when the pay is issued."

He rises sometimes at seven o'clock, but more commonly at eight or nine in the morning; on halting days, washes and takes medicine; the barber then begins to shave him, during which the head aukbar neoise, or news-writer, comes in with the letters that

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have arrived by the tappauls, and relates the news of the different countries as he has received it. The officer commanding his guard then comes in, and makes his report; after which the adjutants of corps come, and make a report of their respective corps. About twelve o'clock he goes to dinner, which is over in about an hour: he then holds his durbar, and transacts all business, civil and military, until five o'clock: he then gives out the parole, which he takes from the planets, or figns of the zodiac, writing it himself in a book, which is deposited with his own guard, where the adjutantgeneral (for each cutcherry has an adjutant-general) comes and takes it; after which he lays [lies] down and sleeps about an hour, rises, and makes his fecond meal: the mounchies, or fecretaries, are then called in; they read the letters that have been received during the day, and he gives his orders for answering them :- all this done. and the letters prepared for dispatch, about two or three in the morning he goes to rest. On marching days, where there is no immediate exigency, the army feldom moves before eight o'clock, after Tippoo has taken his breakfast : he goes in his palankeen, on the march; and if any thing particular occurs, he immediately mounts his horse. The order of march is varied according to circumstances; during his late war against the Mahrattas, as they were greatly superior to him in cavalry, his infantry marched in four columns,

thus, | | | with the cavalry and baggage in the centre: he incamps

in a square; his infantry and guns occupying the sour faces—the cavalry within the square; each face has an open street in its centre, with a buzzar. A koushoun forms the picquet of the front face, and is advanced from twelve to fifteen hundred paces; a risfalla is advanced from it, about five hundred paces; and on the march all these picquets form the advance and rear guards, and stanking guards to the columns. The infantry are disencumbered of their baggage on the march, bullocks being allowed by the circar for carrying it. P. 4.

The fummary of Tippoo's character, and the contrast between him and Hyder Ali, drawn by the editor, are compre-

henfive and masterly, but too long for an extract.

The life of Behader Shah, translated from the Persian, is taken from the Asiatic Miscellany. He was the son, and, after some contests, the successor of Aureng-Zebe. The life of Asof Shah and Ahmed Shah are taken from the same collection, and translated by Mr. Vansittart. Ahmed-Shah was the sounder of the Abdally samily; and Zemaun Shah, his descendant, the most formidable enemy of the English in India, possesses the whole of the country between the Caspian Sea and

the Indus. His united antagonists are the Seiks (sometimes called Sicques), the Mahrattas, and the English; but the Perfian horse are almost irretistible, and the Indian allies of England are not always to be trusted. The death of Tippoo will repress the aspiring genius of Zemaun, and perhaps ne will be most effectually checked, as he has heretotore been, by finding him employment at home.

The account of the late governor Holwell seems to be an origin I communication. It is an able, and we believe a faithful biographical narrative. The character we shall select.

Such is the history of this amiable, excellent, and honourable man, who, after an active and useful courte of thirty years employed in various and important duties, was permitted, for a full longer period, to continue in the exercise of private virtue, and the enjoyment of dignified repose. His mind was stored with general knowledge; his understanding was at once sagacious and comprehenfive; while his imagination gave a lively and pleafing colour to all he knew, and every thing he faid: a tafte for elegant literature, and the possession of elegant accomplishment completed his intellectual qualifications. There was a superior urbanity in his manners, which did not proceed more from the habits of his life, than the benevolence of his heart: fo that, while his demeanor affimilated him to the highest station, it rendered him emineutly pleasing to every subordinate rank of social life. In short, nature had written gentleman with fo fair an hand in every lineament of his countenance, that it infused into all he did the graceful decorum of that His honour riches could not corrupt; his temper the world did not four; his benevolence age had not contracted. At the advanced period of fourscore and eight years, his nature was still generous, humane, and indulgent: - While a lively spirit and incomparable pleafantry, which ferved to illuminate. rather than invade, the dignity of his age. continued to chear himself, and delight all around him, to the close of his venerable life.'

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Mr. Boyd's life is extracted from his miscellaneous works.

The complete proof of the fact that Mr. Hugh Boyd was the real author of the celebrated Letters of Junius' is, however, omitted. We may refume the subject on examining the work from which these anecdotes are taken.

A sketch of the life of Sir William Jones follows, on which we forbear to enlarge, as there is reason to expect a complete account of this able and excellent man from his successor in the Asiatic Society. We have reason to believe that such a work is in some forwardness.

A well-written life of lieutenant-colonel Montague follows, and from it we shall extract an anecdote of some curiosity, which reslects high honour on lord Cornwallis.

The following conversation took place between the deputy adjutant-general and major Montagu, as the latter passed headquarters on his march: "Lord Cornwallis has it in contemplation to give col. Smith the command of the artillery to be employed against Severn-droog, and he wishes to know if that circumstance will be any impediment to your exertions?" The major replied, "That he did not expect to take the command; that his only wish was to be employed; and that his lordship might rely on his utmost exertions for the public service under col. Smith." The deputy adjutant-general did not think that answer sufficiently explicit; and faid, " Lord Cornwallis wished to know, whether major Montagu could act with more effect when independent of col. Smith, than when under his command?" The major answered, "That he could certainly carry a plan of his own into execution in the same time that it would require to suggest and explain it to another." The deputy adjutant-general, therefore, concluding that major Montagu's real opinion was, that he should prefer to conduct the business by himself, informed him, that his lordship was disposed to give col. Smith an opportunity of knocking down the walls of the place where he had been fo long confined in a former war; but as it might be attended with some risque to the fervice, he was at length determined to appoint major Montagu to command and conduct the artillery against that important place, as the capture of it was absolutely necessary to the further progress of the campaign.' P. 66.

The lives of lieutenant-colonel Hartley and Mr. Lambert conclude this part of the volume, and, like the former, are

written with ability.

In the miscellaneous tracts, curiosity is preferred to novelty, and importance to a temporary celebrity. In this department, we have received amusement and instruction; and we shall shortly notice the different parts of which it is composed. The first is the journal of an embassy from the government of Madras to the king of Candy in Ceylon, in 1782, by the late Mr. Boyd. It is extracted from his miscellaneous works lately published, and presents an advantageous specimen of his ability, spirit, and perseverance. The journal unites perspicuity with conciseness, and is an excellent specimen of the proper style in which such works should be written—a style that combines the familiarity and pleasantry of conversation with description, and gives to the journal an air both of originality and interest.

Mr. Motte's narrative of his journey to the diamond mines in the province of Orissa, undertaken by the order of lord Clive, in 1766, follows. It contains a good account of that province and its inhabitants, but offers nothing that we can conveniently extract. Mr. Forster's account of Cashmire,

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the next miscellaneous tract, we have already noticed; and the historical account of Candy, from Mr. Boyd's works, will again occur. Some part of the natural history of Ceylon, and a description of the manners of the Cingalese, are contained in the account.

The tract which follows is apparently original in this country. It is entitled 'Illustrations of some institutions of the Mahratta people,' by William Henry Tone, esq. commanding a regiment of infantry in the service of the peshwa. It is an interesting account of a singular race, from which we shall offer a few extracts.

Gibbon, in his admirable History of the Decline and Fall of the Roman Empire, in speaking of the Tartars, observes, that a pastoral people are, above all others, the most inclined and best calculated for war. This remark has both truth and novelty to recommend it; and may be farther confirmed by being applied to the Mahrattas, a people whose occupations are partly rural. The three great tribes that compose the Mahratta cast are, the koonby, or farmer; the dungur, or shepherd; and the cowla, or cowherd. To this original cause, perhaps, may be ascribed that great simplicity of manners which distinguishes the Mahratta people. Homer mentions princeffes going in perfon to the fountains to wash their household linen. I can affirm having feen the daughter of a prince (able to bring an army into the field much larger than the whole Greek confederacy) making bread with her own hands, and otherwise employed in the ordinary business of domestic housewifery. I have feen one of the most powerful chiefs of the empire, after a day of action, affift in kindling a fire to keep himfelf warm during the night, and fitting on the ground on a spread saddle-cloth, dictating to his fecretaries, and otherwife discharging the political duties of his station. This primæval plainness operates upon the whole people. There is no distinction of sentiment to be discerned: the prince and his domestic think exactly in the fame way, and express themselves in the same terms. There appears but one level of character, without any mixture of ardour or enthuliaim; 2 circumstance the more surprising, considering the great exploits they have achieved. But their fimplicity of manners, uncorrupted by success, their courtesy to strangers, their unaffected politeness and eafinefs of access, must render them dear to every person that has had a commerce with them. Such a character, when contrasted with the infidiousness of the brahman, and the haughtiness of the musfulman, rifes as superior to them, as candour and plainness are to duplicity and deceit, or real greatness to barbarous oftentation. P. 126.

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It has already been observed, that, a very few years back, the Mahratta name, as of a people, was unknown, notwithstanding

their prefent importance even in the scale of European politics. Guthrie, in his grammar, published in the year 1764, thus describes their geographical fituation: "The Mahrattas," fays he, " are a kind of mercenaries, inhabiting the mountains between India and Persia." The very reverse of this is the case: the Mahrattas are a fouthern people; their original country is the provinces of Candeish and Baglana, in the Deccan, extending towards the north-west, as far as Guzurat and the river Nerbudda. Here commence the people called the Gracias and Beels; and you will fcarcely ever fee an original Mahratta a resident farther north. To the west, their country extends along the fea-coast, from Surat to Kanara, forming that narrow strip of land called the Kokan. On the fouth, Tippoo's dominions form the boundary, whose original inhabitants are of the Telingana cast. The Nizam's territories form the eastern frontier. peopled also by the Telinganas, an entirely different race, both in language and character. The original Mahratta state is comprised within the above-mentioned boundaries; a country of great natural firength, interspersed with mountains and defiles, all of which are defended by fortreffes, that are referved as depots for treasure, or as retreats in the event of ill fuccess or defeat. Perhaps no country on earth is better calculated for the purposes of defensive war; so that, whatever be the fortune of the Mahrattas in the field, we may lafely pronounce, that in their own country they will always be impregnable. I have counted, in a day's march through Candeish, nearly twenty fortresses, all in fight, in different directions: Chandore, Unky, Tunky, Saler Rouler, Nashick Trimmuc, Golna, and Mongy Tongy, are all places of this description. A country so strongly fituated is unconquerable; and of this truth the emperor Aurungzebe, who made some attempts to subjugate it, appeared latterly to be convinced; for, when acting in the Deccan, in the utmost plenitude of his power, he thought it more prudent to submit to the depredations of Sevajee, the great founder of the Mahratta empire, than attempt the pursuit, through a mountainous country, of a sugitive army, that he might possibly disperse, but could never deleat. Yet these were the people, then apparently inconsiderable, that were destined by Providence to overturn the empire he was labouring to extend; who, issuing from their mountains and vallies, have, in less than a century, levelled to its base the whole sabric of Mahommedan greatness, and erected for themselves an independent government, on the ruins of an empire of feven hundred years' duration: - perhaps fuch a fudden accession of dominion, from so obscure an origin, is without a parallel in the annals of mankind. About thirty-five years ago, the Mabrattas were strong enough to contend with the Musfulmans for the supreme dominion of Hindustan. At the famous battle of Panniput, the collective strength of both parties contested for the empire. The Mahrattas were defeated, but they were neither dispersed nor subdued. Their steady Policy moving progressively to its grand object of universal domi-

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but by the united force of victory and intrigue, they have annihilated the overgrown government of the emperors, already prepared for the event by its own extent, its distractions, and its vices.' P. 128.

The account of Malabar, translated by Mr. Anderson, from Ferishta's General History, is extracted from the Asiatic Miscellany, and is not peculiarly interesting. The account of Aracan, communicated by major Roberts, has appeared in the same work. This is the eastern region, which we have had occasion to describe in our review of major Symes' embassy to Ava. The banditti, who carried off some of the inhabitants of the south-eastern coast of Bengal, are inhabitants of the north-western coasts of Ava, and of a different character from the nation in general. The description was communicated by those who had been carried off, but who afterwards escaped.

An extract from the fixth volume of the works of Sir William Jones, on the primitive religion of the Hindûs, and some extracts from the Vedas, follow. Dr. Fontana's memoir on the cochineal of Bengal is next inserted. This cochineal appears to be of an inferior quality, and less rich in its colouring matter, than that of South America; but, on the whole, it seems to be applicable to many useful purposes. The narrative respecting his majesty's ship Resistance at the time of her blowing up, is taken from the Madras courier, and has been copied, more concisely, in the English newspapers. The ship was blown up at sea, and three only escaped. Congratulatory letters to Mr. Hastings conclude this department of the work: an excellent one written in the Persian language, and translated by a Persian, is too interesting to be omitted in our journal.

'To the Hon. Warren Hastings, esq. late governor-general of the British dominions in the East-Indies.

4 *Lucknow, 15th Feb. 1785.

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' Honourable Sir,

It is, to-day, five years fince I had the honour to speak to you; nor has it been in my power to see you these two years. Your time is too important, honourable Sir, to be engrossed, even for a moment, by any thing short of some material business, on my part: But yet I have been enjoying you all this while: I have been enjoying you, honourable Sir, in that reverential awe, and that high admiration, you have impressed all Hindustân with—in that love of their's which the natives have more than once forcibly expressed for your person, and to which you are the only European that ever had any access: so that whenever, in letters from London, or in public papers, I chanced to observe that the best-qualified judges in

^{*} Lucknow, at nine hundred miles from Calcutta, is the capital of the Oude; and I arrived there just as the governor had quitted it to return to Bengal.

Europe, had at last closed with the high opinion entertained of your talents in India, I exulted in that universal approbation, as if lord Stair's * excellent tracks had reflected fome luftre even upon me. Gone are now our joys, honourable Sir-You are quitting us. This piece of intelligence, to which you feemed to have prepared our minds, has shaken my whole frame, as if it were some sudden unexpected stroke. + To no purpose do I search for solace in roving from feat to feat, and from garden to garden: " post equitern fedet atra Cura"-Nothing is green for me now in these once pleasing spots: they are become so many dreary defarts; nor am I ever fensible of my being gone in or come out, but when I am put in mind of it by my people.

To no purpose is it to repeat to myself, that the English are but so many strangers to me, and that yourself, after all, are but one of those strangers. Soon my heart recoils at the facrilegious argument; and a recollection partly pleasing, and partly painful, never fails to inform me internally, that after an intercourse of five and twenty years, those strangers are become my only countrymen; that yourfelf, honourable Sir, are my oldest acquaintance amongst-those countrymen, and, moreover, my partial and munificent patron; and that if, instead of shining in the world as the Chatham of the east, it had been your fate to have moved only in an humble station, you would have been my bosom-friend.

It has been a standing rule hitherto with me, honourable Sir, never to take a personal leave of my friends. But many are the alterations occasioned in me by your departure; and it is not without a sense of jealousy I see colonel Martine ; hurrying down to bid you his last farewell. Twice have I attempted to return to Europe, and twice have I been obliged to come back, after having lost every thing; fo that, ten years ago, I had fat myfelf down with a resolution to listen to the voice of Providence, and to end my days in India: but India is become a dreary waste for me now; and I am

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In one of these tracts, where that deep-thinking nobleman examines critically the state of his nation, and of course that of all Europe, he says, that the English arms have been unsuccessful every where, except in India, where they have triumphed;—a singularity which he ascribes to the Chatham of the East, (and that is his expression.)

[†] The governor had already fent his confort to England. † Colonel Martine is one of those French, who, driven to despair by the mifery and famine that defolated Pondicherry in 1760, threw themselves among the English. He has ever been with them since that day; and, although conflantly employed in desperate affairs (so fays the historian Orme, one of the best-informed, as well as one of the most eloquent men that ever wrote history), he has never been wounded. Colonel Martine is a man defirous of all kinds of knowledge; and, although he is at the head of a large fortune, which he owes only to his industry, he works whole days together, at all the arts that concern watch-making and gunfmith-work, with as much bodily labour as if he had his bread to earn by it. As an architect (and he is every thing), he has built himself, at Lucknow, a strong elegant house, that has neither beams nor cupola, and is so contrived that a single man might defend it against multitudes,'

now preparing to quit it for the third time, were it but to get rid of

that emptiness which every-where furrounds me.

'I have known your person, honourable Sir, these five and twenty years. The life of dispute and contention to which you have been doomed this long while, cannot have altered the original fenfibility of your heart. Receive, then, honourable Sir, an offering worthy of it. This letter, this artless, disorderly letter, has been in many a spot bedewed with the tear of affection, and more than once interrupted by the fob of regret, and the scream of deep-felt woe.

' May that Providence that has overshadowed you on many an awful occasion, continue to watch over your person, in your intended journey! And when, after a long feries of years gloriously fpent, your last hour shall have come, may you depart with recollection enough to remember, that you have been an ornament to your nation, a benefactor to your country, and a refource to an Ballotar c bus

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infinity of distressed.

I am, with an everlafting attachment, honourable Sir, your ever obliged, respectful servant, Nota-Manus.' P. 191.

The poetry of this collection is, as may be supposed, of the oriental kind, or connected with Alia or the various orientalists. The first is a hymn to the fun, by fir William Jones. It is remarkable, that, among the Hindus, one of the titles of the fun is Arca, and that by the Thibetians the fun's car is reprefented like a boat.

The fecond is the translation of a Persian ode by Shah Aulum, written after his eyes had been put out. An epitaph on the famous Job Charnock, who was the founder of the British settlement at Calcutta, from the old cemetery at that town, and the lines on the cenotaph, erected by Sir William Draper to the conquerors of India, conclude this part of the work.

The books reviewed are, the Works of Sir William Jones; Sir William Ouseley's translation of a part of the Jehan Ara, respecting the Ancient History of Persia; Fra Paolino's Voyage to the East-Indies; Sonnini's Travels; and Mr. Jackson's Journey (over-land) from India. These we have noticed or shall have occasion to examine. On the whole, this first volume of the Asiatic Annual Register has given us great satisfaction; and we can only wish the editors a continuance of the encouragement they have received, and which they have fo well delerved.

and and theile continue of the to be to deem and present the combined

out of the land of the works who were developed to the the state of th

A Treatise on Febrile Diseases, including Intermitting, Remitting, and Continued Fevers; Exuptive Fevers; Instammations; Hemorrhages; and the Profluvia; in which an Attempt is, made to present at one View, whatever, in the present State of Medicine, it is requisite for the Physician to know respecting the Symptoms, Causes, and Cure of those Diseases. By Alexander Philips Wilson, M.D.F.R.S.Ed. &c. 8vo. 9s. Boards. Cadell and Davies. 1799.

OUR author's first object was to give a course of lectures on sebrile diseases, as the symptoms and the management of these disorders are obscure and complicated. Insirm health has obliged him to decline the labour of lecturing; and he now offers the result of his inquiries to the medical student in the present form, intending to conclude his plan in five volumes, of which the first on intermittent, remittent, and continued severs, is a complete work, if no other should be published. A plan of such magnitude requires much deliberation and mature reslection, both from the author and the reviewer. We must suppose that he has already taken his share of the task; and we may now be indulged with a few remarks on

It will be immediately obvious, that to exhibit a work of this kind complete, "omnibus numeris absolutum," must be far beyond the purposed compass and bulk. We need only look to the space occupied by febrile diseases in the writings of Hoffman and Van Swieten, to be at once convinced of the truth of this opinion, especially when we consider that many disquisitions unknown to them must for some time detain a modern author. Selection and comprehensive views are therefore necessary, with such references to other authors as may fill up lacunæ on comparatively trifling occasions, or give more complete views in the important parts. Long difquilitions are therefore feldom admissible: a short view of the whole, adverting to contending opinions and giving the refult of the arguments of each fide, can only make a part of a system like this before us. Should the author indulge in more, it must be at the expense of information more valuable. are indeed aware, that the importance of each subject must be ultimately appreciated by his own opinion; but the teacher who aims at giving a general view should notice every part either fully or subordinately. If, after these considerations, we should offer an opinion of the volume, we should say that it is too full on some topics, and defective in others. author has, in the general views, engaged too much in detail, and has wholly omitted parts which the student should know. It is not necessary, for instance, to follow the abstruce

our fide.

metaphyfical pathology of Stahl de Motu tonico, or the vague indeterminate ideas of Boerhaave respecting the inertia liquidi nervofi; it is fufficient that the student should be informed of the existence of fuch doctrines, and should learn where they may be Various parts where retrenchment or a more comprehensive conciseness would have been proper, will occur to every reader. The great extent of the diagnosis and prognosis is often disproportioned. If Dr. Wilson's nosological system were correct, the former might be in a great degree avoided; and, in many parts, the latter might be shortened. He has very properly noticed the observations of foreign authors, and, with great propriety, has chiefly attended to their facts, neglecting their reasoning; but the want of minute and accurate quotations will prevent thefe references from being uleful, We should wish, for instance, for more particular information respecting those intermittents where the sweating was the first, and the cold stage the last, period of the fever, than can be found by reference to 'Burferius' Institut. Med. Pract. and the very marvellous, frequently the fuspicious, collections of Schenkius. Again, we know that the Boerhaavian school considered vernal tertians, not disturbed by active remedies, as falutary; but it would have been very fatisfactory to be informed in what part of his voluminous commentary Van Swieten has faid the same of quartans. Many similar difficulties occur.

In the general developement of the plan, however, we think our author is, in many respects, clear and judicious. We wished chiefly for less detail, and more general, as well as more comprehensive, accounts in many parts. What Dr. Wilson has done indeed demands our gratitude; but, to enable our readers also to judge of the work, we must be more particular, especially as some parts have the claim of novelty.

Nofology is the subject of our author's introduction; but the arrangement of diseases is very imperfect, from a very unsuspected source. This is, that all the authors, even Linnaus, began at the wrong end. Instead of rising from species to genera, they formed classes and orders before they examined the connexion of individual disorders. Linnæus, for instance, knew that his botanical genera were groupes of species; but, in arranging diseases botanically, he made individual diseases This error Dr. Wilson seems to have perceived, but he has rectified it imperfectly. He saw that Dr. Cullen's order pyrexiæ improperly included idiopathic and symptomatic fevers, and therefore separated them; but this distinction should have rather taught him to reject the class wholly. Many fimilar diseases are also separated, from their not being attend-This, which with our author forms a striking ed with fever. difficulty, should have led to the same conclusion.

will be impossible to form, satisfactorily, the more comprehensive associations. This will probably lead to natural orders, and we have reason to expect soon a very valuable at-

tempt of this kind.

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Some other useful and judicious remarks on Dr. Cullen's nosological system, occur in the introduction. Our author, with many practitioners, denies that miliaria is ever idiopathic. We have, however, seen more than one instance of its being so, and have even seen it epidemic, though in a confined circle. Aphtha, though not attended with a particularly marked sever, is certainly sometimes an idiopathic disease. Of 120 boys, in one grammar-school, not ten escaped aphtha at nearly the same period, though more than one-half of the number was scattered through a large town, and very sew, if any, were so ill as to be kept from school—

Cuæque ipse miserrima vidi, Et quorum pars — fui.

This is a fact of fingular curiofity. Eryfipelas too we have feen idiopathic, and contagious: it once ran, with few exceptions, through a whole ward of an infirmary. Our author's nofological system, as far as relates to fevers, may be shortly explained. His two first classes are idiopathic and symptomatic fevers; the first without, the second with, primary local affec-The first class is divided into three orders, the intermittents and remittents, continued fevers, and those exanthemata where the fever is not fymptomatic. There are no fubdivisions of the first order. The second contains the three genera of Dr. Cullen, styled by Dr. Wilson species, his system admitting no genera; and the varieties of fynochus are fimplex, petechialis, miliaris, aphthofus, eryfipelatofus, and veficularis. The third order branches into the small pox, chicken pox, meazles, scarlet fever, plague, and nettle-rash. In the second class, symptomatic fevers are three orders, phlegmafiæ, hæmorrhagiæ, and profluvia, which scarcely differ from those of Dr. Cullen; but the lecond contains only epistasis, hæmoptysis, hæmorrhois, meporrhagia, hæmatemefis, and hæmaturia.

In our author's general account of the symptoms and cure of fevers, we find him sufficiently sull and correct. His authorities are good, and we wish only, as we have said, that the quotations had been more minute. In the practical part, we wished, in some instances, for the titles of the works whose authors are quoted, but the omission is not frequent.

The principal novelty in this volume occurs in the chapter on the proximate cause of sever. Cullen's doctrine Dr. Wilson deems merely hypothetical, as it does not explain the connexion between the different and opposite changes which

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take place in fevers. The great error in Dr. Cullen's doctrine is in confidering the formation of spalm as the first effort of the vis medicatrix: it is in reality a fymptom of debility only, and what is called the increased action of the sanguiferous system is only irregular action. But it is not our present object to defend the professor's doctrine; we must follow the present author. In the contrasted account of Brown's system, he remarks, that 'this alone is founded in a great measure on observation; yet he adds, 'in taking a few right steps he has taken many wrong ones,' (p. 460); 'that many of his opinions contradict the fundamental principles of his system, (p. 472); that from the elements of medicine 'there are scarcely two people who would give the same account of his doctrines,' ibid; and that, in the principal fundamental point, this system departs from truth,' (p. 480). The general principle of the Brunonian doctrine is the observation that excitability may be occasionally accumulated, and by immoderate or improper application of stimuli diminished or destroyed. The fact must be often kept in view; yet we have seldom seen any judicious application of it. Dr. Wilson shows, that the application frequently made by Brown himself of this position, either in explaining the doctrines of health or difease, was improper. On the whole, we know not that a more able opponent of Dr. Brown could be found than our present author. He has proved the whole fystem to be so loose, so incorrect, and so inapplicable to practice, that it may be fafely forgotten. It has at least little connexion with this subject, and was chiefly introduced to explain Dr. Wilson's own doctrine, The principal parts of this we shall transcribe.

'The laws of excitability are changed in fever, This change is sufficient to account for the phænomena essential to fever, with-

out supposing any change induced on the fluids,

We know that the laws of excitability in fevers are different from those which prevail in health, because the same external agents, the same degree of exercise, the same degree of temperature, the same quantity of food, of light, of sound, &c. which in health occasion moderate excitement, followed by exhaustion; in sever produce excessive excitement or atony. The state of the living solids being thus changed, there must be a corresponding change in the effects of the internal agents, the circulating, and other sluids; hence the phænomena of sever.

'The proximate cause of sever therefore is a change in the laws of excitability; in consequence of which the same agents no longer

produce the same effects.

How the remote causes of sever act in inducing this change, and on what change in the living solid this change in the laws of excitability depends, we neither can, nor ever shall perhaps be able

to determine. This part of the subject is involved in the utmost obscurity. From the facts which have been stated, it is certain that the causes of sever do effect this change, and it is evident that such a change in the living solid must occasion the phænomena of sever.

We could have told a priori, that if the natural agents either fimulate in excess, or become atonics, the phænomena of fever

would be the confequence.

'Some of these phænomena may be explained, by supposing that the principal natural agent, the blood, is so changed as to produce effects on the living solid, different from those consistent with health. There is a species of sever evidently produced by this cause. When opium or fermented liquors are received into the mass of blood, they so change the properties of this sluid, that it simulates the heart and blood-vessels to more frequent and powerful contractions than usual. But if a quantity of these agents has not been received into the body sufficient to effect a change in the laws of excitability, the other symptoms of sever do not appear; and this always proves temporary, the excitability of the heart and blood-vessels being affected by the blood in the usual way, as soon as it has regained its usual properties, in consequence of the expulsion of the offending matter by the excretories.' P. 529.

To this doctrine, if it may be so styled, some objections might be made; and the principal allegation is neither proved by what precedes, nor by what follows. The excitability of some parts is increased, and that of others lessened. If the author had said that the æquilibrium of the healthy state is changed, he would have been nearer the truth; but increase or diminution do not imply a change in the laws. Opium will still induce sleep; wine will occasion heat with increased pulse

and ipecacuanha produce vomiting.

In the treatment of continued fevers, the author follows the plan suggested by this doctrine, and in synocha proposes to change 'excessive into moderate excitement;' in typhus, 'atony into moderate excitement.' These, however, are only plans for the arrangement of the remedies. Indications of this kind neither add to our knowledge, nor correct former errors. In the subdivisions, we find no room for laxatives, a remedy which we have found important in severs; and in the incidental mention made of them we find the usual timidity we have often observed in practical authors. Dr. Geach's practice of combining calomel with antimonials, was perhaps not published when the last hand was put to the work. As we promised to notice it again, we may now add, that we have often found it a valuable improvement in the management of severs on their first appearance.

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Sonnini's Travels in Upper and Lower Egypt. (Continued from Vol. XXVIII. New Arrangement, p. 253.)

WE resume, with pleasure, the travels of our entertaining and intelligent naturalist; for, when national vanity and political views do not interfere, his remarks are generally judicious, his descriptions animated and appropriate. We find little of the dull detail of common minds, of the general indiscriminate accounts of closet travellers; but the whole scene is brought before us in its native hues. Some have objected and indeed with justice, that our traveller has not added much to the common stock of knowledge from his travels through this long-famed country, and that the extent of his journey is much less than what it is professed to be, as in the southern direction he is exceeded by Bruce and others, in the western and more interesting parts by Browne. This may be fafely admitted, without greatly lessening the value of his labours; for the descriptions of an intelligent traveller, not confined in his views, or limited in his previous knowledge, must always be interesting; nor have we any reason to doubt the fidelity of Sonnini, when France, French valour and humanity, are We left him in his progress to higher Egypt, not concerned. and shall now follow him in the remainder of his tour.

The jealoufy of the modern inhabitants of Egypt, and their fuspicions that the visits of Europeans are designed only to convey away those treasures which they have the peculiar art of discovering in their hidden recesses, are the frequent sources of danger to the transitory visitant. Sonnini was often in dissidulties from this cause, but surmounted them by a cool presence of mind, which seems never to have forsaken him.

The Egyptian animals called camels, are strictly the drome-Our traveller confirms the usual accounts of their patience and perseverance, but adds to their character less pleasing traits of revenge. They are fensible of harsh unjust treatment, and treasure it in their minds; but, the passion once fatiated, they yield again to the burthen, and obey the rider. They may be occasionally soothed for transient injuries, but their revenge for greater ones is not eafily fatisfied; and it is not uncommon for those who have offended them to place their clothes in the animal's way, stuffed so as to resemble The camel attacks thefe, and tramples on them with violence, after which the mafter may fafely appear. Camels travel with speed; but the fatigue in the dry barren desert is inconceivable. A Bedouin, however, in five days travelled from Cairo to Mecca, a space of four hundred leagues, which employs a caravan for thirty days.

In the defert, Sonnini had occasion to observe the Bedouins

in their uncontaminated fimplicity. They are frank, courteous, and hospitable; and to partake of their simple fare gives the traveller a title to their friendship, their gratitude, and protection. Luxury is banished from their tents, which are shared with their domestic animals in social friendship. The tribe by which our author was protected, declared that its ancestors were Europeans and Christians, formerly wrecked on

the coast of Egypt.

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After leaving the canal of Alexandria, our traveller deviated to the west, to visit the nitre beds and springs. There, in proper hands, would be the fource of riches to Egypt, as they contain the fosfil alkali, with little adulteration, from sea falt. The gradual progress of land, formed from the sea, as described in a late number of our Journal, from major Rennell's work, is well illustrated by our author's description of this part of his journey. The deep is succeeded by more shallow and fine fand: these fands are occasionally interspersed with pebbles, until the whole becomes folid. There are two lakes, which are sometimes united, and these swell when the Nile finks. This alternate swelling of the lakes and rivers is not, however, connected. The lakes increase from rain in the neighbourhood; the river from rain in the distant mountains; and the periods of these rains are not the same.

On this fide of the lakes there stands, upon the declivity of the hill, a small house, in which the Copts say there was born a saint, whom they particularly honour, called by them Maximous, probably the Saint Maximus, or Saint Maximinus, of the Catholic

legend.

I ftopped some time near the lakes, and traversed their banks; at length we continued our route still in a fouth-west direction. After travelling over a fand entirely covered with hardened natron, that rendered our progress extremely fatiguing, both to us and our beafts, we arrived within a small distance of a large square building, in which fome Coptic monks live feeluded from the world. I do not believe that there is upon earth a fituation fo horrible or forbidding as this fort of monastery. Built in the middle of the defert, its walls, although very high, when they are feen at any considerable distance, cannot be distinguished from the sands, having the same reddish colour and naked aspect. There is no apparent entrance. Not a tree, not a plant of any fize, furrounds it; no road leads to it; no trace of men is to be observed near it; or, if some footsteps are there imprinted, they are soon covered by the lands, or effaced by the feet of wild and ferocious animals, the proper inhabitants of these frightful solitudes. Such is the harsh and repullive appearance of this retreat of men, as useless as their habitation.' P. 340.

The inhabitants of the convent, confined to this defolate

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fpot by indolence or a mistaken zeal, are the most squalid misferable beings that the imagination can conceive, Their food. their dress, their cells, are scanty and wretched in the extreme. The door is walled up, and a wicket only fometimes opened; for, in fear of furprise, the monks are usually drawn by a pulley over the walls. Near this monastery, Sonnini was attacked and plundered by Arabs; but his property was restored by the spirited interference of his own scheik, Hussein, who, it feems, in the former part of his life, had been one of the most active robbers of the defert. From the attachment of modern philosophers, the disciples of Rousseau, to the savage or the pastoral state, we have some reason to doubt the truth of the warm colours with which the Bedouins and their manners are described; but the writer may be correct, when he remarks the inconvenience felt on Ali Bey's attempt to exterminate this race. They supply various kinds of merchandise and camels. and contribute to the diffusion of the conveniencies which both afford; nor does it lessen the advantage to those who purchase, that the cattle are procured by robbery, or lead them to reflect that they may be lost in the same way.

In our author's return to Cairo, he describes the various natural productions of this climate; and we can fully agree with him, that Egypt, under the protection of an European power, might be a valuable acquisition. If Great-Britain, with safety to her troops, could support a garrison in Egypt, to her it would be a most useful territory; but a mutual jealousy will probably prevent any European power from obtaining it.

A description of Cairo, and a sketch of the various revolutions of its government, follow. The character of Murad

Bey is thus given:

Murad, who has had the courage to fight the French, is a very handsome man: he has a martial appearance; his ohin is covered with a bushy black beard; his thick eyebrows describe arches of ebony over his large eyes, which are full of vivacity and fire. A long scar in one of his cheeks adds to the fierce cast of his countenance. To great bravery he joins singular address and extraordinary strength. He has been known, when riding past an ox, to cut off its head with one stroke of his scimitar. An intrepid warrior, capable of enduring the severest hardships, an excellent horseman, dexterous and powerful in the use of the sabre, courageous in adversity, bold in enterprise, cool in action, but terrible in an onset, Murad, with instruction, might have become a great general. His proud deportment, and munificent disposition, give him the dignified appearance of a sovereign; but injustice, ignorance, and cruelty, have rendered him a ferocious tyrant.' P. 434.

The mamlouks and the beys often join generofity and humanity with their acknowledged courage and dexterity in military exercises; and the attachment of their women is marked by the most delicate tenderness, and sometimes by the most generous facrifices. The horses, contrary to the common opinion, are active, spirited, and beautiful, though not particularly strong. The asses of this country, as has often been observed, are very different from the sluggish obstinate animals of the same species in our island. In Egypt the ass is neither degraded nor neglected; and its useful qualities of patience, security, and caution, render it highly valuable.

In the East, asses have also been of the number of those animals held in the highest estimation: they constituted a part of the wealth of the ancient patriarchs, as they still do of the slocks and herds which the wandering nations of the same countries have continued to rear. The Egyptians alone regarded them with abhorrence; in their eyes they were the execrated emblem of the evil genius of the giant Typhon, the son of Tartarus and Terra, a monster with a hundred heads and a hundred mouths, vomiting slames, who had dared to declare war against the gods, and had at length cut to pieces Osiris, one of the divinities of Egypt. The hatred which the inhabitants of Coptos, in particular, bore to asses, was so inveterate, that it was their custom to precipitate them from the summit of a rock. The people of Busiris and Lycopolis carried their superstition so far as to abstain from blowing the trumpet, because they thought its sound resembled the braying of an ass.

'It has been generally imagined, that this decided aversion to these animals originated from their rusous colour, which the Egyptians supposed to have been the colour of Typhon, and on that account held it in detestation. This opinion has been adopted by the learned author of the Recherches Philosophiques sur les Egyptiens et les Chinois. The reverse, however, is the fact; for the greater part of the Egyptian asses are of a bright grey, several are black, and those which are marked with a few shades of rusous are very

uncommon.

If in the wide field of conjecture, which the history of the most remote periods of antiquity leaves open, I may be permitted to hazard an opinion respecting the horror manifested by the Egyptians towards a race of useful animals, I should trace it to a very disferent origin. I have already observed, that the ancient people of Egypt were neither conquerors, travellers, nor merchants. They passed from place to place by navigating the Nile, and the canals with which Egypt was more generally intersected than it is at the present day. Horses, as well as camels and asses, which nature has placed in an almost isolated country, in order that nations separated by sandy and uninhabited plains might establish an intercourse with each other, were consequently very much neglected. But as if it was not enough for the Egyptians to be uninfluenced by a spirit of conquest, and as it was at the same time requisite that they

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should keep themselves in a posture of defence against the enters prises of their ambitious neighbours, and the incursions of the Arabs, they were obliged to maintain troops and bodies of cavalry. The horse, excluded from the catalogue of animals honoured by the Egyptians, was no less necessary to them in this point of view; but being in a manner employed by them with reluctance, and in a kind of fervice contrary to the genius and political fystem of the nation his utility was nevertheless infusficient to acquire him the degree of confideration which he deserved. It appears, indeed, that warriors alone enjoyed the right of keeping horses. Placed in the secondary rank, the afs, according to the principles adopted, was confidered as altogether useless, and therefore doomed to a state of absolute profcription. It feemed as if the Egyptians endeavoured to revenge themselves on this animal for the use they were compelled to make of the horse. Whatever is regarded as useless is soon despised; and from contempt, founded on reason and reflection, the transition is short to hatred and disgust.' P. 454.

This remarkable trait in a national character might, perhaps, deferve more attention than we can here bestow; nor is it necessary to add a single remark on the very trisling, inconclusive, reasoning of Sonnini. The aversion of the Egyptians to assess was certainly connected with their antipathy to the red colour, not because assess were red, but because they had so often selt the oppression of the neighbouring Edomites, who were in general of this colour, and whose riches consisted in asses. Their Typhon was red, and a type of this nation, whose incursions were often troublesome, and who, under the shepherd kings, once reigned in Memphis. The whole of this subject we may illustrate on another occasion. The jumar, the reputed offspring of a bull and a mare or she-ass, our author never saw, and, with reason, distrusts its existence. Dr. Shaw was probably the dupe of some imposition.

The descriptions of some fish caught in the Nile are curious, as feveral of them had not before been noticed by naturalits; and the various customs of the modern Egyptians, observed while M. Sonnini resided at Cairo, though not always new, are related with spirit and interest. In the secluded situation, to which the French in Egypt were at that time confined, our author's remarks could not be very varied and extensive. The pyramids he could only examine curforily, but he has added a fection of one of those structures, of which Mr. Dalton his given the perspective, and a section of the catacombs of Sonnini supposes the pyramids to have been semummy pits. pulchres. Meteorological observations are added. On the hottest day of August, 1777, Fahrenheit's thermometer was at 92°, and on the coldest (the 24th), the same thermometer was at 82°. The wind was northward, varying from north to east. In the first twenty-one days of September, the thermometer veered from 80 to 88 *.

The principal object of Sonnini was to penetrate into Abysfinia. In this, however, he was disappointed, partly by the unfettled state of Upper Egypt, but chiefly from having discovered a plot between his conductor and interpreter to rob and murder him in the defert. His journey was therefore more confined; and he did not proceed farther than Luxor, the fite of ancient Thebes. His voyage up the Nile furnishes the usual catalogue of frauds, oppressions, and dangers, from which he escaped with some loss, but with no essential injury: The eastern fide of the Nile offers only perpendicular rocks and a barren defert; on the west, the land is more fertile, and better cultivated, but the fields are fometimes broken by almost inaccessible cliffs, the refort of barbarous hordes of robbers or pirates; and the river is frequently confined by the cliffs on each fide within a narrow and dangerous channel, while the winds, sometimes blowing in a direction opposite to the current, occasion a heavy and inconvenient swell.

At Bousch, we met with one of those gales of wind from the south, which are so famous, and at the same time so dangerous in these countries. Woe to those who may happen to be then crossing the immense sandy solitudes with which Egypt is bordered! Intepidity is of no avail, and the most valorous armies might be there overwhelmed by clouds of sand driven impetuously along by the wind, perish from suffocation, and die in despair. The atmosphere seemed as if on sire, and yet was darkened by whirlwinds of dust. Reaumur's thermometer stood at twenty-seven degrees. Both men and animals inhaled nothing but scorching vapours, mixed with sine and burning sand. The plants were parched up: in short, all animated nature was withered.

This gale of wind still continued on the 27th, and it even appeared to have increased in violence. My sailors were quite dejected; and it was by dint of promises alone that I could prevail on them to set the kanja again in motion, by tracking it along; but the impetuosity of the wind soon rendered their efforts fruitless, and we were forced to stop behind a sandy point that sheltered our boat from the current, the roughness and rapidity of which was increased by the strength of the gale; but we were not here protected from the inconveniences resulting from the southerly wind. The heat was still greater than on the preceding day; the thermometer had

fand, which the wind carried with it, adhered to our faces, and the The translator has faid, that the thermometer on the hottest and coldest day was at 250.

day was at 88. We have corrected it from the original tables, not the abstract, where the same error occurs, the translator having copied too servilely. The numerals in the English tables are very incorrect, particularly in this part. Rev.

On the morning of the 29th we fet fail with a fine breeze from the north-east. The weather was beautiful; and the atmosphere, cleared of the clouds of dust with which it had been loaded the preceding days, displayed its resplendent azure canopy. Losty and perpendicular mountains of fand and of rock here contract the course of the Nile, and form, on its east bank, a chain of impregnable ramparts. With vast and frequent intersections, they extend to a great distance into the defert, the horror of which they confiderably augment; and the river washing them with its stream, imperceptibly undermines their base. These high masses of stone sometimes project into the Nile, so as to render the straits which they form very dangerous to navigation. In other places they refemble natural fortresses, and would indeed be very well calculated to defend the passage of the Nile. Inaccessible as a habitation for any human being, these barren and frightful mountains are the domain of a multitude of birds, which have there established their abode, where they are never disturbed, and from whence they spread along the waters, and all over the country, in order to feek for prey and food. The name of Dsjebel el Teir (Mountain of the Birds), which is given to this chain of rocks, indicates with what fort of inhabitants it is peopled.' P. 513.

M. Sonnini had little time to examine the ruins of Antinoopolis. The principal object of his remark was a magnificent gate, or triumphal arch, decorated with fluted pillars, of which Paul Lucas has given a very incorrect representation. On the east are numerous excavations in the rock, which are supposed to have been formed by anchorets, by dæmons, &c. according as fancy or superstition dictated. Our author thinks that they were places of burial, but without sufficient reason. Many of these excavations afforded the stone necessary for the heavy magnificence of Egyptian buildings; some may have been formed for occasional shelter, or for other purposes of the very early inhabitants; the repositories of the dead were generally sheltered, and in more dry spots. The excavations in the neighbourhood of Siout are probably of the latter kind.

The kiasches lent me his horses to take an excursion to the mountains that form, behind Siout, an amphitheatre of barren rocks, the soot of which is a sull quarter of a league from the town. The other side of these mountains, overlooking the Nile, appears at

a distance as if pierced full of holes of different forms; they are the inlets to excavations made in the rock, which is calcareous. Some of these entrances are in the form of an arch, and others in that of an oblong square. They are of handsome workmanship, and ornamented with fymbolical devices, among which I observed, both without and within, the figure of a man as large as life, leaning on one hand with a stick. Most of the cavities form very spacious chambers, about thirty feet high. The infide of fome of them is charged with figures and hieroglyphics, which time has, in a great measure, effaced. There are still to be distinguished the remains of painting on the ceiling and in the hollow parts of the figures. These chambers are lighted by air-holes made in the rock. There are also in them deep wells cut out in a square form; but into thefe it was not possible either to see or to descend. I visited four or five of these immense caverns, which are all that I believe are to be found on the back of the mountains near Siout; but they are furrounded with a great number of fmaller grottoes, the entrances of which are arched, while those of the larger ones are all fraight.' P. 525.

Our traveller assumed the character of a physician, and, from Mr. Bruce's as well as Mr. Browne's experience, we know that it is an office equally difficult and dangerous; but M. Sonnini enlarges on its inconveniences more than the former travellers, and seems often to have extricated himself from great difficulties with address. The length of this article alone prevents us from transcribing some of his humorous details of this kind. The account of the common narcotic of Egypt, the hemp, is more important.

Hemp is cultivated in the plains of these countries; but it is not spun into thread as in Europe, although it might probably answer for that purpose. It is, nevertheless, a plant very much in use. For want of intoxicating liquors, the Arabs and Egyptians compose from it different preparations, which throw them into a sort of pleasing inebriety, a state of reverie that inspires gaiety and occasions agreeable dreams. This kind of annihilation of the faculty of thinking, this kind of slumber of the soul, bears no resemblance to the intoxication produced by wine or strong liquors, and the French language affords no terms by which it can be expressed. The Arabs give the name of keif to this voluptuous vacuity of mind, this sort of sascinating stupor.

'The preparation most in use from this hemp is made by pounding the fruits with their membranous capsules; the paste resulting therefrom is baked, with honey, pepper, and nutmeg, and this sweetmeat is then swallowed in pieces of the fize of a nut. The poor, who sooth their misery by the stupesaction produced by hemp, content themselves with bruising the capsules of the seeds in water, and eating the paste. The Egyptians also eat the capsules without

any preparation, and they likewise mix them with tobacco for smoking. At other times they reduce only the capsules and pistils to a fine powder, and throw away the seeds. This powder they mix with an equal quantity of tobacco, and smoke the mixture in a fort of pipe, a very simple, but coarse imitation of the Persian pipe. It is nothing more than the shell of a cocoa-nut, hollowed and filled with water, through which a pungent and intoxicating smoke is inhaled. This manner of smoking is one of the most ordinary pastimes of the women in the southern part of Egypt.

All these preparations, as well as the parts of the plant that serve to make them, are known under the Arabic name of hase chisch, which properly signifies herb, as if this plant were the herb, or plant of plants. The haschisch, the consumption of which is very considerable, is to be met with in all the markets. When it is meant to designate the plant itself, unconnected with its virtues

and its use, it is called basté.

Although the hemp of Egypt has much resemblance to ours, it, nevertheless, differs from it in some characters, which appear to constitute a particular species. On an attentive comparison of this hemp with that of Europe, it may be remarked, that its stalk is not near so high; that it acquires in thickness what it wants in height; that the port or habit of the plant is rather that of a shrub, the stem of which is frequently more than two inches in circumference, with numerous and alternate branches adorning it down to the very root. Its leaves are also not so narrow, and less dentated or toothed. The whole plant exhales a stronger smell, and its fructification is smaller, and at the same time more numerous than in the European species.' P. 551.

The account of the fan-palm tree, peculiar to Upper Egypt, is highly interesting. The fruit, as usual with the palms, grows in bunches or clusters on the top, and the numerous naked stems, of a middling thickness, are deeply marked through their whole length with rings. When many grow together, the effect is highly beautiful. It is neither a date-tree, nor does it produce the bdellium, as some authors have afferted. The fruit is about the size of an orange, elongated, and irregularly shaped; and what surnishes the aliment is the dry spongy part, covering the kernel. To our author it was very unpalatable, and resembled that of the courbaril (a species of the hymenæa), growing in South-America.

In Upper Egypt, M. Sonnini met with a very loathfome disease of the leprous kind, resembling the mal rouge of Guiana, described by Hilary under the appellation of the leprosy of the joints. The singers and toes successively drop off, without any inconvenience to the general health. This, like all other leprous disorders, produces approdisiac effects; but it is not considered as infectious. Another species, styled the lost

via, the 'leprofy of the Arabs,' (Hilary) also occurred to our author: it resembles the elephantiasis of Sauvages. 'The leprous firakes on the walls' we did not understand; and as the readers of this translation may be equally uninformed, we may observe, that the words thus rendered are taches tepreuses.—

Stroke is in some counties called frake.

Dendera, the ancient Tentyris, afforded a rich harvest of antiquities; and under the protection of the emir, who commanded in that city, M. Sonnini enjoyed sufficient opportunities of observation. A temple in good preservation still remains; and, as our author remarks, sis one of the most striking edifices that antiquity has endeavoured to impress with the feal of immortality, which the Egyptians had constantly in view in the prodigious works that they executed. It was dedicated to Isis, and this tutelary divinity of Egypt was there worshipped in the shape of a cat.' This is, indeed, a striking trait of Egyptian architecture. Every thing was immense; and, if magnificence confifts in bulk, every thing was magnificent; but if we except the remains of Roman tafte, exeof Egyptian buildings. To durability were facrificed grace, elegance, and even propriety; nor is it easy to say, that their object was immortality. It was probably a deficiency of tafte, or owing to the facility with which an immense block might be carved into heavy ornaments. The ruins of Dendera teach us no longer to regret the destruction of so many other buildings, truly Egyptian.

It was not in their architecture alone that the Egyptians difplayed that affection for posterity, and that love of immortality, which predominated in all their works; they were also desirous that their paintings should be equally durable. The colours they made use of, the preparation ferving to incorporate them closely and immutably into bodies as hard and as folid as stone, are so many proofs of their profound knowledge in the arts, and fecrets which out refearches have hitherto been unable to bring to light. The ceiling of part of the temple of Dendera is painted in fresco, of the brilliant azure blue colour, with which, in fine weather, the canopy of heaven is adorned; the figures in relievo, with which this blue ground is interspersed, have been painted of a beautiful yellow; and these paintings, at the expiration of some thousands of years, still possess a brilliancy to which our freshest colours cannot be compared, and they are still as bright as if they had been recently laid on.

I have already mentioned, that the façade of this temple, an dmirable and but little known work of the genius and patience which, among the ancient Egyptians, produced wonders, was a hundred and thirty-two feet and some inches in length. I took its

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other dimensions with the same exactness. The depth of the peristyle is a hundred and fifteen feet three inches, and its breadth fixty feet eleven inches. The two fides of the edifice are two hundred and fifty-four feet nine inches and a half in length; laftly, the depth is a hundred and ten feet eleven inches. The roof of the temple is flat, and formed of very large stones, which are placed from one pillar to another, or from a wall to a pillar, or rest upon two party-walls. Several of these blocks are eighteen feet long and fix broad. The rubbish heaped up behind the temple, and the fand that collects there, have raised the soil to a level with the roof of the building, and it may eafily be ascended from that part, although the façade is still elevated seventy feet above the ground. The inhabitants of the district had availed themselves of this situation, and built a village upon the very top of the temple, as on a foundation more folid than the inconstant fands or muddy earth upon which they generally erect their habitations. When I was at Dendera, this modern village was deferted and overthrown, and its ruins of indurated mud formed a fingular contrast with the magnificent remains of the ancient city of Tentyris. It was painful to behold there the most complete proof of the total annihilation of the arts in a country which had given them birth, and where they had acquired fo aftonishing a degree of perfection; and it was still more painful to contemplate the very deplorable decline of the human understanding.' P. 597.

If the domestic animals of Egypt are the most gentle, the wild ones are the most ferocious of the whole world. They share, with robbers and pirates, the excavations of the rocks on the shores of the Nile, and the hyæna particularly inhabits this region. The hippopotamus is no longer found there; and the crocodile, retiring gradually to the fouthern regions of Upper Egypt, is not now found below the cataracts. The hippopotamus was deemed facred, and the race confequently was not destroyed; but, terrified by the report of fire-arms, it feems to have left its usual haunts. The bear, another facred animal in Egypt, has also disappeared. It has been doubted, with reason, whether Egypt was ever the resort of this ani-Sonnini thinks that it once inhabited these regions, but we suspect that its appearance was accidental, as its proper country is more elevated and cold. The fertility of Egypt has, in the opinion of this writer, been greatly exaggerated; yet, from careful examination, he admits that, on an average, a crop of corn yields from 25 to 30 for one. crease may, by proper management, be rendered still more productive. The character of the modern Egyptians is well known, and our author does not add greatly to our information in this respect. We were a little surprised at his admitting some idle tales, which a sound judgement would have,

we think, rejected. This is not the æra of extreme credulity. We shall conclude our extracts with an account of the acacia, the tree which produces the true gum Arabic.

4 Upon the dry and almost barren plains of these parts of Upper Egypt commonly grows the true acacia, from the stem and branches of which is procured the gum Arabic. Its port, or habit, is generally stunted, and its stem crooked and low; its branches long and few, and left almost naked, from the paucity and narrowness of its leaves; a very rough bark of a deep brown, and the long white fpines with which it is armed, give it a harsh and withered appearance, and might make it be taken for one of those aphyllous trees. the fap of which, benumbed by frost, is reduced, during the winter, to a state approaching that of death. Very small flowers, white, or tinged with yellow, and almost without smell, are insufficient to compensate for its unattractive port and deficiency of foliage. This species of acacia, called by the Egyptians funth, and not fanth, as I have feen it written by most authors, will never then be reckoned among the ornamental trees, but its utility will always make it be confidered as one of the most valuable. Its wood, of a deep red colour, is hard, and susceptible of a beautiful polish. Its seeds, enclosed in a pericarp very similar to that of the lupin, yield a red colour, and are used to dye Morocco leather. Goats are very fond of this fruit, which, in Arabic, is called karat. When pounded with its pericarp, previous to its maturity, it furnishes our pharmacies with an aftringent known by the denomination of fuccus acacia. But the gum which exudes from the numerous crevices of the bark of the acacia, or from the incisions made in its trunk or larger branches, is an important article in commerce and manufactures, in which a large quantity of it is confumed. Great heat is necesfary for the formation of gum Arabic. In fact, although the acacia thrives in other more northern parts of Egypt, it there produces no gum; in the burning temperature of Thebais, on the contrary, I have feen it entirely covered with congealed and indurated drops of this mucilaginous juice.

In more able hands than those of the Egyptians, the acacia might become a powerful mean of restoring to cultivation the lands of Upper Egypt, which sterility has invaded, and the soil of which, naturally sit for vegetation, is covered by strata of intruding sand. However dry or argillaceous might be the earth lying under the sand, the gum-tree might be there planted, and would live, provided its roots penetrated into a bed of vegetable mould; and the stratum of sand surrounding the lower part of its trunk would in no respect injure its growth. Forests of acacias would soon recall vegetation and inhabitants to a soil which a variety of circumstances seemed to have perpetually devoted to an arid depopulation; and till it should again be brought to a state of culture, the gum Arabic would yield a return sufficiently profitable to leave no cause to regret the

expense of such a plantation. Besides, the excellent wood which it might supply would be an indemnisication of no small importance, in a country where that article is extremely scarce.' P. 636.

The ruins of Thebes excite our author's aftonishment. Obelisks; colossal statues; rows of sphinxes; porticoes of a surprising elevation, one of which is 170 feet high, and 200 broad; immense colonnades, the pillars of which are from 20 to 30 feet in circumference, contribute to excite his admiration. The description is, however, necessarily indistinct, for the spot was too dangerous to admit particular observation. Our author's return offers nothing peculiarly interesting, and the cursory reslexions on the French expedition to Egypt as-

ford no new subject of remark.

We will now mention the ornaments of these volumes. speaking collectively of the original and translations, as well as of the rival translators, and of the work in general. The anap prefixed to all is copied from D'Anville; a negligence unpardonable, as it does not always accord with our author's your, and is, in some instances, an useless or a faithless guide. Had other avocations, as Sonnini pretends, prevented his giving a new map, he should have, at least, added the Delta on an enlarged scale, and corrected this, as well as the map of Upper Egypt, according to his own description. The translators are not blameable for having copied him. They were not required to do more than follow their prototype. other plates of the original are well executed; but the objects are not always well chosen, and the views have sometimes an embellished beauty, a little suspicious, though the spot particularly alluded to has often been the fubject of the traveller's panegyric. These ornaments, in the translation printed for Debrett, are very carefully copied, but the imitations want the freedom of the originals. In this translation, we must observe, an additional plate occurs, viz. a view of the mosque of Abou-Mandour, from the opposite side, beautifully executed. The imitations in Dr. Hunter's translation are incorrect and inelegant.

Of the translations we shall say little: the translator who has published in quarto complains greatly of unfairness, as he first announced his intended version. His rival appeared with a precipitation that at least would induce a suspicion of incorrectness; and he has with some pleasantry, but perhaps too much severity, exposed the numerous errors of Dr. Hunter. If, according to the usages of the trade, Mr. Debrett's translator was unfairly anticipated, the retaliation may be justified; and we can remark, that in many parts we could have added to the list of ludicrous errors. A more erroneous and inelegant version we have seldom seen. His rival, to challenge

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Of the work itself we need not, after the long detail in two articles, say much. From our attention to it our readers may conclude that we regard it as an interesting and valuable addition to our stock of topographical knowledge. While Egypt is considered as a step to our Indian settlements, we can safely recommend this work as highly important to the nation that wishes to form an establishment in that country. M. Sonnini has, either by accident or design, surnished those sacts which will best contribute to its security and solidity.

The Works of Robert Burns; with an Account of his Life, and a Criticism on his Writings. To which are prefixed, some Observations on the Character and Condition of the Scottish Peasantry. 4 Vols. 8vo. 11. 11s. 6d. Boards. Cadell and Davies. 1800.

IN the course of the last hundred years, many an unlettered bard has been obtruded on the notice of the world; but these supposed geniuses have in general sunk with the same rapidity that they rose in the public estimation. The exertions of royal patronage could not shelter the short-lived laurels of Stephen Duck; and many other names are recorded only as instances of the blind partiality of those who imagine they have been so fortunate as to discover a prodigy. Such is not the sate of Burns. He emerged from obscurity to assonish the age, and his early promise was amply sulfilled by his maturer productions. The vigour of his intellect was not impaired by the feverish enjoyments of luxury, nor was it chilled by the coldness of neglected poverty. The fire of his imagination glowed to the last: it was extinguished only with his life.

At the period of his death the public interest was strongly excited by the destitute situation of his wife and children; and it was suggested, that a complete edition of his works would raise a sufficient sum to save them from the extremity of penury. Happily for them, and, we will add, happily for the lovers of true genius, sufficient materials were soon collected to form a most respectable addition to his published poems. The selection and arrangement of these materials were committed to Dr. Currie of Liverpool, whose ardent enthusiasm, corrected by the discretion of true raste, whose knowledge of his native dialect, and whose acquaintance with the local circumstances of Burns' neighbourhood,

rendered him peculiarly well qualified for the happy perform-

ance of the talk.

The first volume of this edition contains the life of Burns. As this unfortunate offspring of genius was in reality what he is represented to have been—a Scottish peasant—Dr. Currie has introduced his biographical memoir by an account of the character and situation of that order of men. He has thus exhibited to our view the advantages of education which Burns enjoyed, the state of society in which his early store of ideas was collected, and the prototype of those incidents with

which his writings abound.

In this differtation on the state of the Scottish peasantry, Dr. Currie first notices the degree of intellect by which they are so eminently distinguished from men of their own station in other countries. Their superior acquisition of knowledge he justly attributes to the institution and proper management of the schools which are by law established in every parish throughout the kingdom. Knowledge creates a defire to increase our comforts; and the desire of an increase of comforts gives rife to the spirit of emigration, by which so many intelligent Caledonians are actuated; for, as Dr. Currie observes, If a greater degree of instruction be given to the peasantry of a country comparatively poor, in the neighbourhood of other countries rich in natural and acquired advantages, and if the barriers be removed which kept them separate, emigration from the former to the latter will take place to a certain extent, by laws nearly as uniform as those by which heat diffuses itself among surrounding bodies, or water finds its level when left to its natural course.'

The fondness for religious disputation, which characterises the lower classes of people in Scotland, Dr. Currie ascribes to their early initiation into the mysteries of Christianity by the use of the Westminster catechism as a school-book. This cultivation of religious inquiry, joined to their sondness of general reading, tends to make them orderly and sober; and they are not encouraged to violate these virtues by the institution of poor laws, which Dr. Currie happily denominates a

bounty on idleness and a duty on industry.

Hence, he says, it will not appear surprising, if the Scottish peasantry have a more than usual share of prudence and reslection, if they approach nearer than persons of their order usually do, to the definition of a man, that of "a being

who looks before and after."

Dr. Currie next touches upon the fondness of the Scottish peasants for their national music and dancing. Noticing the amatory character in the rustic muse of Scotland, he is naturally led to treat of the habits and customs of his country in

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relation to the intercourse between the sexes. This topic he introduces by the following just and elegant observations.

In appreciating the happiness and virtue of a community, there is perhaps no single criterion on which so much dependence may be placed, as the state of the intercourse between the sexes. Where this displays ardour of attachment, accompanied by purity of conduct, the character and the influence of women rise in society, our impersect nature mounts in the scale of moral excellence, and from the source of this single affection, a stream of selicity descends, which branches into a thousand rivulets that enrich and adorn the field of life. Where the attachment between the sexes sinks into an appetite, the heritage of our species is comparatively poor, and man approaches the condition of the brutes that perish. "If we could with safety indulge the pleasing supposition that Fingal lived, and that Ossian sung," Scotland, judging from this criterion, might be considered as ranking high in happiness and virtue, in very remote ages," P. 18.

Having mentioned the severity of the law which prescribes the punishment of incontinence, he shows, that the evil tendency of this law is in a great measure counteracted by the facility of contracting marriage, which only requires from the parties the deliberate acknowledgement of each other as husband and wife before witnesses. The parties themselves fix the date of their marriage; and, in consequence of this contract, all children born before wedlock are at once constituted legitimate.

The manner in which Dr. Currie accounts for the peculiar attachment of the northern Britons to the land of their nativity, is philosophical and convincing. We should do injustice to this part of his differtation by abridging it; and it is too long to be inserted entire. We must therefore refer our readers to the work itself, taking the liberty of pointing out pages 26 to

31 inclusive, as worthy of their particular attention.

The interest excited by the untimely death of Burns gave rise to numerous inquiries into the particulars of his life on the part of the admirers of his writings; and the correspondence which he maintained with some of his literary friends affords ample documents, from which the progress of his intellect and the rise and confirmation of his habits may be accurately traced. His biographer has therefore judiciously adopted for his model Mason's Life of Gray, making the letters of Burns and his friends the stamina of his work, connecting them by occasional narrative, and illustrating them by necessary explanation and comment. The following letter from the poet to Dr. Moore gives an interesting account of the transactions of his early years.

Mauchline, 2d August, 178% For some months past I have been rambling over the country, but I am now confined with some lingering complaints, originating, as I take it, in the stomach. To divert my spirits a little in this miserable fog of ennui, I have taken a whim to give you a history of myfelf. My name has made some little noise in this country; you have done me the honour to interest yourself very warmly in my behalf; and I think a faithful account of what character of a man I am, and how I came by that character, may perhaps amuse you in an idle moment. I will give you an honest narrative, though I know it will be often at my own expense; for I affure you, Sir, I have, like Solomon, whose character, excepting in the trifling affair of wildom, I fometimes think I refemble, I have, I fay, like him turned my eyes to behold madness and folly, and like him too, frequently shaken hands with their intoxicating friendship. After you have perused these pages, should you think them trifling and impertinent, I only beg leave to tell you, that the poor author wrote them under some twitching qualms of conscience, arising from a suspicion that he was doing what he ought not to do; a predicament he has more than once been in before.

I have not the most distant pretensions to assume that character which the pye-coated guardians of escutcheons call, a gentleman. When at Edinburgh last winter, I got acquainted in the herald's office, and looking through that granary of honours, I there found almost every name of the kingdom; but for me,

My ancient but ignoble blood Has crept thro' fcoundrels ever fince the flood.

Gules, purpure, argent, &c. quite difowned me.

My father was of the north of Scotland, the fon of a farmer, and was thrown by early misfortunes on the world at large; where after many years wanderings and fojournings, he picked up a pretty large quantity of observation and experience, to which I am indebted for most of my little pretensions to wisdom.—I have met with few who understood men, their manners, and their ways, equal to him; but stubborn, ungainly integrity, and headlong ungovernable irafcibility, are disqualifying circumstances; consequently I was born a very poor man's fon. For the first fix or seven years of my life, my faher was gardener to a worthy gentleman of finall estate in the neighbourhood of Ayr. Had he continued in that station, I must have marched off to be one of the little underlings about a farm-house; but it was his dearest wish and prayer to have it in his power to keep his children under his own eye, till they could discern between good and evil; so with the affistance of his generous master, my father ventured on a small farm on his estate. At those years I was by no means a favourite with any body. I was a good deal noted for a retentive memory, a stubborn

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furly fomething in my disposition, and an enthusiastic ident piety. They ideot piety, because I was then but a child. Though it cost the schoolmaster some thrashings, I made an excellent English scholar; and by the time I was ten or eleven years of age, I was a critic in substantives, verbs, and particles. In my infant and boyish dars too, I owed much to an old woman who resided in the family. remarkable for her ignorance, credulity, and superstition. She had. I suppose, the largest collection in the country of tales and songs concerning devils, ghosts, fairies, brownies, witches, warlocks, founkies, kelpies, elf-candles, dead-lights, wraiths, apparitions, cantrips, giants, inchanted towers, dragons, and other trampery. This collivated the latent feeds of poetry; but had fo strong an effect on my imagination, that to this hour, in my nocturnal rambles, I sometimes keep a sharp look out in suspicious places; and though nobody can be more sceptical than I am in such matters, yet it often takes an effort of philosophy to shake off these idle terrors. The earliest composition that I recollect taking pleasure in, was the Vision of Mirza, and a hymn of Addison's, beginning, 'How are thy servants blest, O Lord!' I particularly remember one halffanza which was music to my boyish ear-

For though on dreadful whirls we hung
High on the broken wave.—

I met with these pieces in Mason's English Collection, one of my school-books. The two first books I ever read in private, and which gave me more pleasure than any two books I ever read since, were, The Life of Hannibal, and The History of Sir William Wallace. Hannibal gave my young ideas such a turn, that I used to strut in aptures up and down after the recruiting drum and bag-pipe, and wish myself tall enough to be a soldier; while the story of Wallace poured a Scottish prejudice into my veins, which will boil along there, till the slood-gates of life shut in eternal rest.

Polemical divinity about this time was putting the country half-mad, and I, ambitious of shining in conversation parties on Sundays between sermons, at funerals, &c. used a few years afterwards to puzzle Calvinism with so much heat and indiscretion, that I raised a hue and cry of heresy against me, which has not ceased to this hour.

'My vicinity to Ayr was of some advantage to me, My social disposition, when not checked by some modifications of spited pride, was, like our catechism definition of infinitude, without bounds or limits. I formed several connections with other younkers who possessed superior advantages; the youngling actors who were busy in the rehearfal of parts in which they were shortly to appear on the stage of life, where, alas! I was destined to drudge behind the senes. It is not commonly at this green age, that our young satry have a just sense of the immense distance between them and then ragged play-fellows. It takes a few dashes into the world, to

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give the young great man that proper, decent, unnoticing diffregue for the poor, infignificant, stupid devils, the mechanics and per fantry around him, who were perhaps born in the same village, My young superiors never insulted the clouterly appearance of my plough-boy carcase, the two extremes of which were often exposed to all the inclemencies of all the feafons. They would give me stray volumes of books; among them, even then, I could pick up fome observations, and one, whose heart I am sure not even the Munny Begum scenes have tainted, helped me to a little French. Parting with these my young friends and benefactors, as they oc. cationally went off for the East or West Indies, was often to me a fore affliction, but I was foon called to more ferious evils. My father's generous master died; the farm proved a ruinous bargain; and to clench the misfortune, we fell into the hands of a factor, who fat for the picture I have drawn of one in my tale of Twa Dogs. My father was advanced in life when he married; I was the eldest of feven children, and he, worn out by early hardships; was unfit for labour. My father's spirit was soon irritated, but not easily broken. There was a freedom in his lease in two years more, and to weather these two years, we retrenched our expenses; We lived very poorly: I was a dextrous ploughman for my age; and the next eldest to me was a brother (Gilbert) who could drive the plough very well, and help me to thrash the corn. A novelwriter might perhaps have viewed thefe scenes with some satisfaction, but fo did not I; my indignation yet boils at the recollection of the f---- I factor's infolent threatening letters, which used to set us all in tears.

'This kind of life—the cheerless gloom of a hermit, with the unceasing moil of a galley-slave, brought me to my fixteenth year; a little before which period I first committed the fin of rhyme. You know our country cuftom of coupling a man and woman together as partners in the labours of harvest. In my fifteenth autumn, my partner was a bewitching creature, a year younger than myself. My scarcity of English denies me the power of doing her justice in that language, but you know the Scottish idiom; she was a bonnie, fweet, fonsie lass. In short, she altogether, unwittingly to herfelf, initiated me in that delicious paffion, which, in spite of acid disappointment, gin-horse prudence, and book-worm philosophy, I hold to be the first of human joys, our dearest blessing here below! How the caught the contagion I cannot tell; you medical people talk much of infection from breathing the same air, the touch, &c. but I never expressly said I loved her .- Indeed I did not know myfelf why I liked so much to loiter behind with her, when returning in the evening from our labours; why the tones of her voice made my heart-ft-ings thrill like an Æolian harp; and pare ticularly why my pulse beat such a furious ratan when I looked and fingered over her little hand to pick out the cruel nettle-stings and thiftles. Among her other love-inspiring qualities, the sung

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fweetly; and it was her favourite reel to which I attempted giving an embodied vehicle in rhyme. I was not so presumptuous as to imagine that I could make verses like printed ones, composed by men who had Greek and Latin; but my girl sung a song which was said to be composed by a small country laird's son, on one of his father's maids, with whom he was in love; and I saw no reason why I might not rhyme as well as he; for excepting that he could smear sheep, and cast peats, his father living in the moorlands, he had no more scholar-craft than myself.

Thus with me began love and poetry; which at times have been my only, and, till within the last twelve months, have been my highest enjoyment. My father struggled on till he reached the freedom in his lease, when he entered on a larger farm, about ten miles farther in the country. The nature of the bargain he made was such as to throw a little ready money into his hands at the commencement of his lease, otherwise the affair would have been impracticable. For four years we lived comfortably here, but a difference commencing between him and his landlord as to terms, after three years' tossing and whirling in the vortex of litigation, my father was just saved from the horrors of a jail, by a consumption, which, after two years' promises, kindly stepped in, and carried him away, to "where the wicked cease from troubling,

and where the weary are at rest!"

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It is during the time that we lived on this farm, that my little flory is most eventful. I was, at the beginning of this period, perhaps the most ungainly aukward boy in the parish—no solitaire was less acquainted with the ways of the world. What I knew of ancient story was gathered from Salmon's and Guthrie's geographical grammars; and the ideas I had formed of modern manners, of literature, and criticism, I got from the Spectator. These, with Pope's Works, some plays of Shakspeare, Tull and Dickson on Agriculture, the Pantheon, Locke's Essay on the Human Understanding, Stackhouse's History of the Bible, Justice's British Gardener's Directory, Bayle's Lectures, Allan Ramfay's Works, Taylor's Scripture Doctrine of Original Sin, a Select Collection of English Songs, and Hervey's Meditations, had formed the whole of my reading. The collection of fongs was my vade mecum. pored over them driving my cart, or walking to labour, fong by long, verse by verse; carefully noting the true tender, or sublime, from affectation and fustian. I am convinced I owe to this practice much of my critic-craft, fuch as it is.' P. 35.

The father of Burns appears to have been an extraordinary character. At once steady and bold, he generated in his son that spirit of independence which gave an additional interest to the splendor of his talents. His unbending spirit, however, produced a litigation with his landlord, which consumed the

fcanty relics of his property; and at his death 'his all (to adopt the energetic words of his son) went among the hell-hounds that growl in the kennel of justice.' In these distressful circumstances, Robert, in conjunction with his brother Gilbert, contrived to raise money sufficient to stock a neighbouring farm, on which our poet entered, as he says, 'with a full resolution, come, go to, I will be wise.'

But it was not in the nature of Burns to follow up his good resolutions. He was the child of sensibility, and was too liable to give way to the power of immediate seeling. Endued with such a temperament, he would of course be peculiarly liable to receive the impulses of the tender passion.

The banks of the Ayr,' his biographer observes, 'formed the scene of youthful passions of a still tenderer nature, the history of which it would be improper to reveal, were it even in our power, and the traces of which will soon be discoverable only in those strains of nature and sensibility to which they gave birth. The song in vol. iv. p. 17, entitled Highland Mary, is known to relate to one of these attachments. "It was written," says our bard, on one of the most interesting passages of my youthful days." The object of this passion died early in life, and the impression less on the mind of Burns seems to have been deep and lasting. Several years afterwards, when he was removed to Nithsdale, he gave vent to the sensibility of his recollections in the following impassioned lines. In the manuscript book from which we extract them, they are addressed "To Mary in Heaven!"

Thou lingering star, with less'ning ray,
That lov'st to greet the early morn,
Again thou usher'st in the day
My Mary from my soul was torn.
O Mary! dear departed shade!
Where is thy place of blissful rest?
See'st thou thy lover lowly laid?
Hear'st thou the groans that rend his breast?
That sacred hour can I forget,
Can I forget the hallowed grove,
Where by the winding Ayr we met,

Eternity will not efface,

Those records dear of transports past;

To live one day of parting love!

Thy image at our last embrace;

Ah! little thought we 'twas our last! Ayr gurgling kissed his pebbled shore,

O'erhung with wild woods, thick'ning, green; The fragrant birch, and hawthorn hoar,

Twin'd amorous round the raptured fcene.

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Ica Ita pri The flowers sprang wanton to be prest,
The birds sang love on every spray,
Till too, too soon, the glowing west,
Proclaimed the speed of winged day.
Bill o'er these scenes my mem'ry wakes,
And sondly broods with miser care;
Time but the impression deeper makes,
As streams their channels deeper wear.
My Mary dear departed shade!

Where is thy blifsful place of rest?

See'st thou thy lover lowly laid?

Hear'st thou the groans that rend his breast?' P. 128.

The circumstances of distress to which Burns was once reduced in consequence of the irregular indulgence of his amorous propensities, form a memorable period in the history of his life. Prevented by the interposition of her parents from marrying a young woman, the consequences of whose connexion with him could no longer be concealed, he was pursued by the parish officers, who were commissioned to compel him to find security for the maintenance of illegitimate twin children. In this extremity, after publishing his poems, he had taken a passage in a ship which was on the eve of sailing for

In this extremity, after publishing his poems, he had taken a passage in a ship which was on the eve of sailing for Jamaica; his chest was on the road; he had taken leave of his smends, and written his last farewell to his country, when hope once more smiled upon his prospects, in consequence of the receipt of a letter from Dr. Blacklock, who by the medium of a friend invited the poet to Edinburgh, with the assurance that a second edition of his poems would meet with a ready sale. This invitation he gratefully accepted, and arrived in the Scottish capital in the month of November, 1786.

(To be continued.)

A General Treatise on Music: particularly on Harmony or Thorough-Bass, and its Application in Composition. Containing also many essential and original Subjects tending to explain and illustrate the whole. By M. P. King. Folio. 11. 1s. Sewed. Goulding and Co. 1800.

IN a country where music is so much cultivated, and patronised at so great an expense for foreign auxiliaries, as in England, it is surprising that there should have been such a paucity of treatises on the art or science, produced by native professors. Indeed France, till the time of Rameau, had scarcely one elementary work on music that could be read. Italy and Germany have at all times, since the invention of printing, been prolific in books of instruction for young stucart. Rev. Vol. XXIX. August, 1800. 2 F

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dents in harmony. Dr. Burney has, indeed, by digging in our public libraries of Oxford, Cambridge, and the British Museum, discovered manuscripts of great antiquity, written by monks for the use of their monasteries; but, for particular music, nothing seems to have been produced previous to printing, or (we may fay) in later times, till after the reformation, when pfalmody only feems to have been thought of. Morley's Introduction was the first general treatise that iffued from the press in this country. But, after that publication, no theoretical work of great utility or importance appeared from the death of queen Elizabeth till the beginning of the present century; and, during the first fifty years of this century (according to Dr. Burney's lift of mufical tracts at the end of the fourth volume of his History); the following were the most important treatifes that were presented to the world: Dr. Holder's work on the Natural Grounds and Principles of Harmony, 1701: Malcolm's Treatife on Music, 1721: Pepusch's Treatise on Harmony, 1731: Lampe's Plain and Compendious Method of teaching Thorough-Bass, 1737: Geminiani's Guida Armonica, and Art of Accompaniment, both, we believe, published about the year 1742: Dr. Smith's Harmonics, 1749. But this last learned treatise should be deducted from tracts on practical music; for, though an elegant and scientific work on the philosophy of musical sounds, and division of the monochord or temperament of the scale, it offers no rules for practical harmony.

During the last fifty years, the following didactic works on music have appeared in Great-Britain. Rameau's Treatife on Music, containing the principles of composition, appeared in 1752; but this work not having been originally written in English, and being so ill translated as to be unmtelligible, hardly merits a place among our mufical publications.—Antoniotto's Treatife on Composition, written originally in Italian, and translated and published under the author's eye in 1760, contains what was well known by the composers of that period, but required explanation for students, and has merit in the doctrine though not in the diction. After this, till Holder's Essay towards a Rational System of Music, a well digested and useful little treatise, was published in 1770, nothing appeared to facilitate the practice of harmony or composition during the next eleven years. Indeed Morley's Introduction was re-published in 1771, of which edition the late Dr. Howard corrected the press and plates; but music, as well as the languages, had undergone fuch changes fince it was first written, that it could neither be read with profit nor with pleasure. It had, however, the merit of an antique, and was purchased as a curiosity beautifully illegible. However, it should be studied by those who think, with sir John Hawkins, that music was ' in its greatest perfection in Europe

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from about the middle of the fixteenth to the beginning of the feventeenth century *.'

Stillingfleet's work on the Principles and Power of Harmony, published in 1771, is an elegant and well written commentary on Tartini's Treatife on Harmony; but it would be more likely to bewilder a young student in composition than forward him in his journey.

An ingenious work on harmonics, under the title of an Essay on Tune, was published at Edinburgh in 1781. teaches the art of purifying harmony, but does nothing for its practical use in polyphonic combinations.

Frike's Art of Modulation, from the German, and much enlarged, will open the mind of a young composer in what may, perhaps, be called musical geography, by pointing out new roads in travelling from one region of harmony to another. But the ingenious author feems to have feduloufly avoided the beaten and high road to harmony and melody, and only provides for uncommon cases.

M. Bemetzrieder has published many elementary works of confiderable merit, but none fo ingenious or fo elegant as his Leçons de Clavecin in the original, which, confisting of dialogues between a mafter and scholar, are rendered dramatic and entertaining as well as instructive f. The English translation is extremely inaccurate 1.

A Treatise on the Art of Music, published in 1784, by the late rev. Mr. Jones, was written with contracted views and utter ignorance of what had been done within the preceding forty years; and his prejudices against every thing new will contribute little towards the formation of a compoler for prelent or future times.

From this period till the year 1796 no work on composition appeared till Mr. Kollmann published his treatise on Musical Harmony §, which, in 1799, was followed by an Essay on Practical Composition |; both works of an able professor, in which much well-digetted reading and experience are discoverable. In these works the laws of harmony are well laid down and exemplified, not only by passages from the author's own works but from the greatest German composers, from the time of Handel and Sebastian Bach to the present period.

We are now arrived at Mr. King's general treatile, in the examination of which we shall

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^{*} See Walton's Angler, p. 238. edit. of 1760.

† This work was drawn up from M. Bemetzrieder's materials, by the philosopher Dideret, whose daughter was his scholar.

See our Review for 1779, Vol. XLVII. p. 99, and Vol. XLVIII. p. 453.

See our XVIIIth Vol. New Arr. p. 88.

See our XXVIIIth Vol. New Arr. p. 219.

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The introduction to this work contains ' the first rudiments of music.' Here the author, of course, must offer to the reader's attention, explanations of fuch elements and characters as may be found in every book of this kind that has been written, and which must be inserted in every book of instructions that may be written in subsequent times; such as cless. names of notes, characters of notes, characters in general, the dot or (and) tye, time, accent, embellishments, licenses. But. though the substance of this introduction must of necessity be inferted in every book of instructions, yet the representations and examples are elegant, and the explanations more clear than usual. Indeed, in order to keep pace with modern inventions and improvements, to these the author has added several new refinements; fuch as double dots, characters for fwelling and diminishing long notes, and even whole passages, abbreviations or short-hand in frequent repetitions of the same note, &c.

In the first part the 'effential principles' occupy ten chapters, which treat of the nature and origin of the scale, examination of the scale, of the minor scale, diatonic; chromatic, and enharmonic scales, of keys, intervals, inversion, of the three

motions, of cadences, general rules.

In explaining these principles, the author sometimes mounts into the regions of philosophy to speak of the propagation of sound, the doctrine of vibrations, harmonics, &c. of which a beginner just learning the gamut or musical alphabet will not understand a word. It seems as if the mechanical parts of practical music should be well comprehended before a student is plunged into metaphysics and the philosophy of sound. The tempered scale of keyed instruments cannot be produced philosophically without geometry, sluxions, and surd quantities. The author advances no absurdities in trying to explain the ratio or proportion of one sound to another; all we have to object is, its being done prematurely.

The division of the monochord is well explained, p. 3; and, when a student has made some progress in practical music, will be easily comprehended without mathematical know-

ledge.

founding board over two bridges, one at each end: then let it be divided (which may be done by moveable bridges) into the following parts: into one half, and it will give the octave: into one third of its whole length, it gives the octave of its fifth: into one fourth, the double octave: into one fifth, the double octave of its third: into one fixth, the double octave of its fifth: into one fewenth, the double octave of its flat feventh.' P. 3.

The subjects of all the chapters of which we have given

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the titles above, are clearly and ingeniously explained, in no-

The French terms, dominant, tout-dominant, and note-sensible, do not naturalise well in our language; and we wish the author had called these sounds by their old English names of 5th, 4th, and short 7th, of the key.

Every expression of intervals by figures in thorough-bass is given at one view in a table, p. 13, which will be easily un-

derstood and retained.

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Page 16. The three motions,—right or fimilar, contrary, and oblique, are well explained in notes; and the rest of this

first part of the work will be found clear and useful.

The notation of cadences in full harmony (which was much in fashion with old musical writers), and the prohibitions of successive 5ths and 8ths, furnish two more chapters to this part, which will be useful to juvenile students in counterpoint.

The second part treats of harmony, under the three distinct

heads of concord, discord, and chords by supposition.

The first chapter in this part contains definitions, among which there is one that will surprise the young student, though strictly true. 'The whole system of harmony is founded on two chords—on a fundamental concord, and a fundamental discord; and from these two chords or roots arise all others. The two fundamental chords are chords of nature, and those derived from them chords of art;' which chords in the treble, by changing the base, furnish all the varieties of harmony that are expressed by figures in thorough-bass.

Page 23. We have a table of different expressions of common chords by figures, followed by an exercise of common chords in a score of sour parts, in which the disallowances

are avoided. The chords of the 6th, or th, as products of

the common chord, are treated in the same manner.

The regarding the extreme sharp 5th with the major 3d, and the sharp 3d with the minor 6th (p. 30.), not as regular chords to be prepared and resolved, but as transient chords, is very judicious, and different from the practice of the French, and our old masters of the last century, who imitated them as much as the Italians and the Germans have been imitated by us since. These detestable chords are still fundamentally treated by musicians of Rameau's school.

Page 31. The 7th, or fundamental discord, producing, by a change of bass to the 3d, 5th, or 7th, of the sundamental

found, the chords of the 6, 4, 4 is judiciously treated; as are the preparation and resolution of the regular 7th.

In speaking of the diminished or extreme flat 7th, the in-

Rousseau, the twelve different modulations or means of changing the key from that chord, making each sound that constitutes the chord the sharp 7th of new keys.

Instructions and examples are given next to chords by supposition (we should rather say suspension), including the 4th,
9th, and double discords of 9 and 9, &c. After this we have

the 2d with its different accompaniments of $\frac{4}{2}$, &c. The discord of the 2d, prepared and resolved in the bas, seems best expressed by the word anticipation.

The chords of the 11th and 13th we think unnecessarily

multiply figures and difficulties,

Part III. On the application (or practice) of harmony. In the first chapter of this part, p. 46, the progression of the fundamental bass is well explained and illustrated, and offers an important lesson to young etymological harmonists, informing them whence the chords to supposed basses are derived.

The fundamental basses of each key, and the natural harmony of the scale major and minor, ascending and descending, which the French call la régle de l'octave, or rule for accompanying the eight notes of each key, are well given and explained, p. 48; and, if practised in all keys, will be found of great use to thorough bass players, by facilitating the means of accompanying without figures.

The tables, p. 58, render the rule still clearer. After this, suspensions and anticipations, both in bass and treble, are treated

with method and intelligence.

Then follow passing notes, under the mistaken title, we think, of transitions. We were forry (p. 17) to observe that Mr. King, whose language is in general accurate and pure, thought it necessary to have recourse to French musical terms, adopting for the 5th and 4th of a key the words dominant and sub-dominant. No good Italian or German writer on mulic has yet adopted these terms; servile translators have alone given them admission. 'The great pest of speech', says Dr. Johnson, 'is the frequency of translation.' The 5th cannot be called a dominant or governing note at an interrupted close. To fay that a close in full harmony cannot be made unless the 5th of the key in the bass rising a 4th or falling a 5th conducts all the feveral parts to the harmony of the key note, is intelligible, and English. Perhaps new expressions of old rules, though the language may be more elegant, may not be more intelligible to ignorance; and the authority must be very high that shall bring about a change in long established definitions and terms of art.

We do not perceive that the examples of composition from

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the author's own fource are regularly phrased, or that an equal number of bars in each period of serious and graceful melody has been recommended by him. Symmetry of phrase, in an air, is as necessary as regular numbers in a poem; all grace in the treble part of a composition depends upon it. A broken phrase (phrase manquée) may be introduced with esfect in dramatic music, to express violent passion or sudden surprise; but, without rhythm, the melody always limps, and is aukward and ungraceful.

Chap. XXX. p. 55. The author enters on the mysterious and important subject of modulation. Regular and usual modulation is clearly exhibited in a table, p. 56. P. 58, the rules for the order of modulation; and 59, the proportionate continuance in each, are pointed out:—60, a circle of keys is given in an ingenious table. After this, our author continues abrupt and extraneous modulation to the end of the third

Part IV. Analysis of composition, preceded by some judicious observations, and followed by the analysis of 'God save great George our King;' an adagio, in Corelli's eleventh sonata, op. ii.; Handel's minuet in Ariadne; and the introduction to Haydn's 'Passion of our Saviour.'

We feared, in perusing the preface to this work, that we should, in the course of it, meet with some degree of arrogance and presumption; the author pointing out to his readers his own excellence: 'flattering himself his work was worthy of notice'—' pursuing a plan very different from any yet published'—' treating some subjects not usually taken into consideration'—' uniting method with perspicuity,' &c. would better, perhaps, have been kept back, and left for his readers and critics to say: but let not these seeming boasts repel the reader's curiosity to examine the validity of the author's claims; they are persectly just and well-founded; and the worst that can be said of them is, that the ingenious author is not wholly ignorant del suo valore.

Perhaps Haydn's admirable movement merited more indications of its beauties than Mr. King has bestowed, whose temarks upon it are only grammatical and mechanical. He might have pointed out to the tyro the sobs, sighs, affliction, and dignified sorrow of its principal melody; the science, beauty, and impassioned effects of its modulation; the light and shade of fortes and pianos, and judicious manner in which that melody is cherished and enforced by the accompaniment. But we can perceive that Mr. King (who we are told is a young man) is not a rapturist. Too great a dose of that enthusiasm which excites rapture on small occasions would have spoiled his book; but let him take care not to arrive at the

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416. Garnett's Tour through the Highlands of Scotland.

nil admirari too foon; it will chill his fancy even in his own productions while those of others it will render nauseous.

Upon the whole, we may venture to recommend this work as a well-digested and well-written treatise, that is very likely to be of considerable use to students in harmony. It will not, perhaps, teach every thing in composition, or even in practical thorough-bass. But the deficiencies in books must always be supplied by the instructions of a good matter, and by scoring a great number of excellent compositions. Study and experience must furnish the rest.

Observations on a Tour through the Highlands, &c. By T. Garnett, M. D. (Continued from p. 12 of this Volume.)

WE attended our author to Inverness, and shall now follow him southward to Dunkeld, Perth, Stirling, and Glasgow. At Inverness the highlands on the eastern coast are generally supposed to terminate; though their real termination is a little farther south. Perhaps from the residence of a colony of Englishmen (the disbanded soldiers of Cromwell) in that neighbourhood, our language is spoken in greater perfection at Inverness than in any other part of Scotland; and a welleducated person from that town can scarcely be known, from his dialect, to be a Scotchman. The academy merits, we believe, the praises which our author has profusely bestowed on it; but he has proceeded too far in the following remarks, which we copy, that we may not, by our silence, be supposed to acquiesce in them.

I cannot avoid observing here, that the inhabitants of North Britain have much juster and more liberal ideas of education than my countrymen; and I cannot but express a wish, that many of the large schools in England, which are so nobly endowed, but in which the dead languages only are taught, were modelled according to the plan of the Scotch academies and universities. At the time of the foundation of these schools, these languages were deservedly in repute; they were the keys which unlocked the learned lore of antiquity.

After the dark gloom, which was spread over Europe by the Goths, and which extinguished every ray of science, had begun to dispel, numbers of the works of the Greeks and Romans were discovered, which were rescued from the general wreck; these were revered, as containing all the knowledge extant. The invention of printing, soon afterwards, spread these treasures of antiquity over the world; and for ages, the philosophy of Aristotle was the standard, from which there was no appeal: to acquire this knowledge

therefore, it was necessary to learn these languages. But our knowledge on almost every subject, and particularly of the sciences, is now infinitely superior to that of the ancients, and the best of their works have been translated into the modern languages. Hence. there is now little necessity for learning the languages of antiquity, which are to be confidered more as ornamental than useful. Is it not therefore better that the abilities of youth should be exercised in gaining a knowledge of things, instead of founds? Instead of tormenting the young mind during that period when a store of useful knowledge might be laid in, with studying Latin and Greek for feven years, would it not be infinitely to their advantage to instruct them in history, geography, mathematics, mechanics, and other branches of experimental philosophy; particularly chemistry, which is a science of such importance, that there are sew situations in life which would not be benefited by a knowledge of it? To the farmer it is as necessary as to the apothecary or the dyer. science by no means difficult to learn; and were the principles of it early instilled into the mind, they would pave the way to discoveries perhaps of greater utility than any that have been yet made. Would it not likewise be of the utmost consequence to those intended for the different mechanic arts, to be instructed in the principles of mechanics? Without these principles, they can never make any material improvements: they may indeed stumble on difcoveries, but can never investigate them from true principles.

If languages are to be learned, let them be the modern languages, as French, German, and Italian, in which ufeful works are written, and business transacted. I would not however discard the ancient languages from the schools, but consider them, as is done at Inverness and the Scotch universities in general, rather as accessories, than the principal object of education. To those who exercise the learned professions, they are necessary, because the sciences of law and medicine contain a number of technical terms derived immediately from those languages. Liberal and enlightened men are however now employed in stripping from them the scholastic jargon, which has concealed their beauties from the general eye for fo many To the divine, these languages, and particularly the Greek and Hebrew, ought always to be familiar, it being very fatisfactory, as well as necessary, to consult the sacred sources of revelation in their purity, unadulterated by the ignorance of translators, or the interpolations of the crafty or bigoted; but if medicine and law were stripped of the terms which now disgrace them, and the student, instead of spending the best of his time in learning the dead languages, should make a proficiency in the modern; and for medicine particularly, lay a good foundation of mathematics, natural history, and natural philosophy, he would soon acquire a greater and more accurate knowledge of his profession than is generally done. Vol. ii. P. 5.

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This trite declamation might be eafily answered; but we shall only ask, following the sciences enumerated by our author and in which we may suppose he excels, Are the best works in medicine, in chemistry, and philosophy, translated, and do we only want the learned languages to explain the terms? Are the works of De Haen, Colin, Quarin, Selle. Bang, and Senac, among the moderns, and many of the ancients, translated? Are the chemical works of Stahl or Mayow. the differtations in the Göttingen transactions, and the Amonitates Academicæ, with many others, in an English dress? Yet we are certain that Dr. Garnett would not consider himfelf as an accomplished physician, philosopher, or chemist. without the knowledge that these afford. In short, this is the cant of modern reformers; and, when they will explain the things that can occupy the time of a boy from feven to four. teen years of age, that can give him the habit of attention and diligence which the words, so reprobated, can produce, we will consider their remarks in a better light. When they bring, from their new schools, men of knowledge and science equal to those who have, in the usual way, studied the dead languages, we will then admit their observations as deserving a more careful examination.

Inverness is situated between the Frith of Murray and the river Ness. Ships of the burthen of 4 or 500 tons can approach very near to it; fo that commerce must greatly flourish. The chief commodity is flax, and its most common form that of white thread, though various kinds of linen goods are manufactured and exported to London, in veffels which bring back supplies of what the Scottish markets most particularly want. The climate is good, much less rain falling, as usual, on the eaftern coasts, than on the opposite side of the island. Craig Patrick is no less than 1150 feet above the bed of the river; and, on its top, are the famous vitrified forts. Our author collects the various opinions of the causes of the vitrification, but we can have little doubt of its arising from the destruction of the furrounding buildings either as intended for shelter or defence. A mode of constructing walls so firm and secure could not have been confined to one spot without a hint of the means by which they were raifed occurring in any author, while this confequence of conflagration may be limited, both from the larger quantity of wood employed, and the greater vitrescibility of the materials. They are evidently of very early antiquity, when wood in all Caledonia abounded, and are found on many of the hills.

Loch Moy, and the island of stones on it, are shortly deferibed; but we could have wished for a more particular account of the Druidical temple, very entire, near Avimore, It must have been a singular curiosity; an unique in archæolo-

gical remarks.

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The village of Bruir takes its name from Bruir Water; and two falls, particularly beautiful after rain, are described; but we shall prefer some other specimen of our author's talents in this department, where the objects are more striking. Blair castle is noticed at length, without any great addition to what other travellers have observed. The pass of Killicranky, about three miles from Blair, is the real entrance, on this side of scotland, to the Highlands; and it fortunately occurs to fill a sew pages from history, as does Gowrie house in the neighbourhood of Perth.

The banks of the Tay afford scenery the most beautiful and picturesque; nor can we blame our author for resting with peculiar complacency on this spot; and we leave it for a time with regret, to contemplate the remains of Dunkeld cathedral, Athol house, or even Ossian's hall! We shall, however, rather notice the beautiful falls of Moness in this neighbourhood, which have less powerfully attracted the at-

tention of other travellers.

We took a guide from Aberfeldie, who conducted us along a path by the fide of the rivulet, through a deep glen wooded to the top with hazel and birch. The first fall is by no means destitute of beauty, and we should have thought it an object of considerable fublimity, had we not been lately accustomed to so much fine scenery of this kind. Just above this first fall, a little rivulet on the left hand precipitates itself into the burn, which forms some very beautiful cascades. Crossing this rivulet, and advancing along the bottom of the glen, we foon came to the finest part of the scenery, confisting of three successive falls, the height of which is very great. The fides of the glen or linn, which is called the den of Moness, are here stupendously high, and fringed with trees on each side, the branches of which meet and intermingle. As far as can be feen, you observe the whitened foam falling as it were from the sky, and, rushing down from rock to rock, the water falls with horrid roar into a deep chasm below. In short, I think that no person who views these falls will hesitate to pronounce them, in the words of the celebrated Welsh tourist, "an epitome of every thing that can be admired in the curiofity of water-falls."

'The rocks which form the sides of this glen are chiefly micaceous shiftus. The grounds lately belonged to Mr. Fleming of Moness, but are now the property of the earl of Breadalbane.'

Vol. ii, P. 75.

The description of Perth and its neighbourhood is in many respects interesting. The situation of the city is beautiful; and we shall select our author's account of it.

We arrived at Perth about ten o'clock, and, after having break-

fasted, we went to take a view of the city, which is one of the handsomest towns in Scotland, and built upon a much more regular plan than any of them, if we except the new town of Edin. burgh. It is faid to contain twenty thousand inhabitants, which account is perhaps fomewhat over-rated, but the common computation, from births and burials, gives between fixteen and feventeen thousand. It is fituated on a fine plain, on the west side of the Tay, which is here a noble river; this plain has undoubtedly been formerly the bed of the river, which, like many others, has embanked itself by means of the stones, mud, and other substances brought by its waters. The extensive and rich plain called the Carle of Gowrie, stretching on both sides of the Tay, from Perth down to its junction with the fea near Dundee, and which reminds one of many of the richest parts of the fouth of England, has undoubtedly. at some remote period, been covered by the river. This is evident from its flat appearance, when viewed from any of the neighbouring eminences, particularly the hill of Kinnoul, or Moncrief hill. The foil being washed away by mountain torrents, which fall with great force into the rivers, begins to be deposited when the velocity of the river decreases, particularly towards the sides, where the velocity is least; by this means the stream becomes gradually contracted, leaving a fine plain of fand and vegetable foil, highly proper for cultivation. In proof of this it may be observed, that the stratum below the foil in this valley confifts of fand and rounded pebbles, and that fome persons digging a well near Perth, found at the depth of three fathoms below the bed of the Tay, chairs, tripods, and other pieces of household furniture, which must have been deposited there when that part was covered with water, as a great many pebbles, and a quantity of river fand, were found above them.

'Perth is furrounded by, or rather divides a spacious plain, into what are called the north and south inches; each of which measures about a mile and a half in circumference. They have probably been what their name signifies, inches, or islands, when the bed of the Tay was more extensive. These inches are used as public walks by the inhabitants, and likewise as public places for the washing and drying of linen, as is common in many parts of Scotland. The Tay slows here in a direction nearly north and south, but a little below Perth it turns eastward, and is lost behind the hill of Kinnoul. The tide from the German Ocean slows up the river, and reaches about two miles above Perth; the river is navigable to Perth for sloops and small craft, and in spring tides for ships of considerable burthen, which come close to the town.' Vol. ii. P. 92.

The manufactures of Perth are very flourishing: they chiefly confist of 'linen and cotton goods,' the exports of which from the city and neighbourhood were, some time since, of the annual value of 220,000%. The trade in leather, and in manufactured boots and shoes, is also very considerable. The value of the exports of the latter is said to be

8000/. annually. Four or five thousand hides, and 500 dozen of calf skins, are supposed to be annually prepared in this city and its environs. The Morrisons are said to print from 30 to 40,000 volumes yearly! Some farther account of Perth is added; but the author has engaged too far in its local history, which will probably be uninteresting to the readers for whom these volumes are chiefly intended.

The view from Kinnoul hill is highly beautiful; but its features are not uncommon, and the principal traits are a delightful river mæandering through a rich vale, occasionally expanding in lakes, or contracting within more limited banks.

The mineralogy of this mountain we shall select.

In my way along the side of the hill, I observed several rude basaltic pillars, and some strata, or currents of crumbling lava, in which a few thin veins of calcedony were discernible. The foot of the perpendicular rock stands upon a steep hill, or inclined plane, which is covered with the debris, or loose fragments of the rock, that are constantly falling off, particularly after frosts and heavy rains. The height of the summit of this rock above the level of

the Tay is 632 feet.

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'The greatest part of this rock consists of lava, in which different layers, or currents, are very evident. Some of it is very compact, but it is generally full of small cells, which have been filled with air bubbles, and resemble exactly the cells in the slag of an iron foundry. This lava is generally of a grey colour, having a lilac tinge, some of it was put into a small crucible, and being placed in the fire of a blacksmith's forge, easily melted into a glass of a dark purple colour, inclining to black, which was so tenacious, that it could be drawn into fine threads, and might undoubtedly be blown into bottles. Immense quantities of this lava are lying at the sout of the rock, which show clearly the volcanic, or igneous origin of the hill.' Vol. ii. P. 123.

I found some of these pebbles hollow, the inside being lined with rock crystals, and I have one or two specimens in which calcareous crystals are inclosed in the middle of the agate; one in-

^{&#}x27;Among the debris at the bottom of the hill, are frequently found very fine agates, of the ribbon, fortification, and other figures. This rock has long been famous for these, though the mineralogy of it has otherwise been little attended to. Several years ago a lapidary from Edinburgh visited it, and collected all the fine agates he could find; since that time, a person in Perth makes a business of picking them up after every frost or heavy fall of rain; on this account, though I found several, none were remarkably fine. Sometimes they are found sticking in a bed of lava, and with a small pocket telescope I could perceive numbers of them, in the face of the rock, far above my reach, adhering in this manner.

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closes a piece of lava, which is a very curious circumstance. Be fides these, nodules and veins of fine calcedony are to be found, in some specimens resembling onyx, and in others approaching in ap-

pearance to carnelian.

In some of the currents of lava I found veins of sulphat of barytes; there are likewise masses of amorphous sulphat of barytes, or cawk. The fame mineral is also found in lenticular crystals, or what is called coxcomb spar. I found likewise some specimens of tuberous zeolite, and I have one in which a piece of lava is nearly invested with this mineral. I met with a considerable quantity of chert, or petrofilex, and found a large piece of rock crystal, incrust. ed with calcedony, which is rough and opake on the outfide. This specimen contains within it a great number of crystals, if they may be so called, but they have a great refemblance to basaltic pillars. being pentagonal, and each face touching the other. They feem to have been formed by the contraction of the parts, like pieces of starch, and are exactly fimilar to the pieces of unannealed glass called proofs, when broken by a piece of flint dropped into them. Rhomboidal calcareous spar is likewise met with, and greenish coloured steatite.

doubted, from the greatest part of it being lava, but how these beautiful agates or other minerals have been produced, is perhaps disficult to say. Most of them, however, appear to have been formed after the slowing of the lava, and I think it most probable that the nodules of agate have been produced by crystallization in the airholes of the lava, while it was in a sused state, in which state it would continue for a long time, at such a depth from the surface. One specimen which I have of a nodule of agate inclosing a piece of cellular lava in its center, exactly of the same kind with that which surrounds it, strongly supports this idea.

'This lava having flown externally, the formation of basaltic pillars has been prevented, at least those pillars that are met with are very rude; though there is a considerable quantity of whinstone on the other side of the rock, near Mr. Young's house, where the lava

has cooled more flowly.' Vol. ii. P. 124.

The mineral wells of Pitkeathly and Dumbarny, near the banks of the Earne, about three miles from Perth, are faid to be chalybeates, but they chiefly contain muriat of lime and muriat of foda, without any iron. Loch Leven has been often described, particularly in the glowing colours of Mr. Gilpin; but the Caldron Linn, about eight miles from Kinrols, is less known.

bed, suddenly enters a deep linn, or gully, and there, finding itself confined, by its continual efforts against the sides, has worked out a cavity resembling a large caldron, in which the water has so much

the appearance of boiling, that it is difficult to divest one's self of the idea that it is really in a state of violent ebullition. From this caldron, through a hole below the surface, the water slowly finds its way under the rock into another circular cavity, in which it is carried round and round, though with much less violent agitation. This second caldron is always covered with a foam or froth. From this boiler the water runs in the same manner, by an opening in the rock beneath its surface, into another, which is larger than either of them, the diameter of it being twenty-two seet. The water in this cavity is not agitated as in the others, but is calm and placid. From this cavern the water rushes perpendicularly over the rock, into a deep and romantic glen, forming a fine cascade, particularly when viewed from the bottom of the glen, to which there is access by a zig-zag path.

This cascade is forty-four seet in height, and the rocks which compose the linn are about twice as high, so that it appears as if the water had worn its way from the top to its present situation, which most probably has been the case. It falls in one unbroken sheet, without touching the rock, and the whiteness of the dashing water is finely opposed to the almost black colour of the rocks, which are formed of coarse grained basaltes. While we were contemplating this beautiful scene, the sun happened to shine upon it, and the spray which arises from it to a considerable height, by refracting the rays of light, exhibited the appearance of a luminous vapour, in which the different prismatic colours were easily discernible...

Vol. ii. P. 141.

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Castle Campbell, of which only the ruins remain, was once styled (in the Celtic) the 'Castle of Gloom,' surrounded by the 'glens of care,' and washed by the 'bournes of sorrow;' expressions truly descriptive of its gloomy uncomfortable situation. The Ochil hills stretch from Dumblane far into Fise in an eastern direction, and are said to be very rich in metals; but no part is, we believe, at present worked.

Stirling and its environs are described at length. The caftle is built on the range of rocks, which rife with a moderate declivity on the east, and end abruptly on the west, from the embouchure of the Forth to Dumbarton; but we cannot fo readily admit that these are volcanic. They all contain basaltic columns; but for this reason, among many others, we would denythat bafaltes was the production of volcanoes: these rocks are evidently a chain of mountains, and a chain of volcanoes for any great extent is by no means common. In general, the rocks of igneous origin are infulated and conoidal. In short, we have evidently attributed too much to volcanic fires, and it may well happen, that, verging as usual to the contrary extreme, we may at last attribute too little; but, as we are now correcting former errors, we must be cautious lest we fall into the oppolite fault.

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The town of Stirling contains about 5000 inhabitants, and has been evidently increasing since the manufacture of cotton was introduced; that of shalloons is probably not increasing, though 200,000 yards are faid to be annually manufactured here. The palace, the school, and the civil govern. ment of the town, are copiously described. A more valuable object is the moss of Kinkardine, which is thrown into trenches and washed thence into the river by the water of the Teath. conveyed into the trenches for that purpose by a water-wheel. Dr. Garnett affirms that gypfum or lime will render the moss fit for the reception of vegetables; and that it may be thus gradually converted into a rich vegetable mould. We have often endeavoured to prove that moss is a living vegetable fubstance, and, in consequence of its destruction by lime, after previous draining, like all vegetable debris, it must become a fertile foil.

'Such is the effect of lime in consolidating moss, aided by draining, though in Mr. Smith's experiments, before these operations, it would not bear a dog; often after the second, and always after the third year, it can be ploughed and harrowed by horses, and the crops taken off by carts; when about half a dozen crops have been taken, the surface is converted into a fine rich dark mould, which naturally runs into sweet luxuriant grass, and though before the moss is thus improved it would not let for a penny the acre, yet after it has been laid down in grass, it is worth twenty-five or thirty shillings.

The confolidation is so great, that at the end of five or six years, if it be laid down with grass, cattle may pasture without breaking or poaching it. As there is generally a superabundance of this vegetable earth in these mosses, part of it might be carried off, mixed with lime, and after a proper time thrown upon other grounds, on which it would operate as an excellent manure.

'The potatoes produced from moss lands are said to be more free from blemish than any other, and are always preferred for planting again, to those grown on other soils. In Ireland, where the cultivation of potatoes is well understood, they are generally planted in bogs or mosses.' Vol. ii. P. 162.

The remains and the history of Doune castle offer nothing very interesting. The account of the village of Doune is more so. Its pistol manufactory has fallen into disrepute, perhaps by the rising excellence of other institutions; and, in its room, the inhabitants manufacture cotton, and have the reputation of being excellent slaters. The next object of interest that we meet with in this tour, is the rough uneven ground styled the Trosacks. The scenery is wild and romantic; rugged rocks of every shape surround the road, and, in many places, overhang it. These rocks are almost covered with heath, and ornamented to the very top with weeping birch.

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It is Glencoe in miniature: the rocks, though smaller, are more rugged, and, from their ornaments, are of a different character. They are of argillaceous schissus, imbedded with veins of quartz, and incline, sometimes almost perpendicularly, to the horizon. Loch Catherine passes over some parts of this uneven ground, and is consequently interspersed with numerous islands.

The Campfie hills are bleak and dreary in their aspect, about 1500 feet above the level of the fea. In some parts there are appearances of strata, and occasionally those of volcanic fires. They are supposed to contain copper and lead, but no trials have been made. Cotton manufactures have added greatly to the population and riches of the subjacent valley (which contains two villages with excellent grounds for bleaching) and of course to its luxuries. Of Glasgow, Dr. Garnett gives a very imperfect account, referring chiefly to that lately published by Mr. Denholme. He enlarges, however, on Mr. Anderson's institution, of which he was the professor, and on the course of lectures which he gave, while he continued in that office. In the cotton manufactory in 1791 were 15,000 (in the copy before us it is laid 150,000) looms, employing 135,000 persons, producing goods to the value of 1,500,000l. annually.

At Kilfyth, in the neighbourhood of Glasgow, on opening the cave of the lady of Kilfyth, the body was found in perfect preservation, after being buried 80 years. A short description,

from Mr. Rennie's account, we shall transcribe.

'I saw the body soon after the cossin was opened. It was quite entire. Every feature, and every limb was as full, nay the very shroud was as clear and fresh, and the colours of the ribbons as

bright, as the day they were lodged in the tomb.

What rendered this scene more striking and truly interesting, was, that the body of her son and only child, the natural heir of the the and estates of Kilsyth, lay at her knee. His seatures were as composed as if he had been only asseep. His colour was as fresh, and his sless as plump and full, as in the perfect glow of health; the smile of infancy and innocence sat on his lips. His shroud was not only entire, but perfectly clean, without a particle of dust upon it. He seems to have been only a few months old.

The body of lady Kilfyth was equally well preferved, and at a little distance, with the feeble light of a taper, it would not have been easy to distinguish whether she was dead or alive. The features, nay the very expression of her countenance, were marked and distinct, and it was only in a certain light that you could distinguish any thing like the ghastly and agonizing traits of violent death. Not a single fold of her shroud was discomposed, nor a single member impaired.

CRIT. REV. VOL. XXIX. August, 1800. 2 G

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But no description can give a just or adequate idea of the neatness or elegance of her appearance. I therefore refer to the sketch taken by your friend. I have only to lament that his representation was finished chiefly from my description, as at the time you saw the body it was much fullied, and the shroud injured: but it is as near the original as I can recollect, or as any pencil can express. I can only say it is not a flattering portrait.

Let the candid reader survey this sketch; let him recal to mind the tragic tale that it unfolds, and say, if he can, that it does not arrest the attention, and interest the heart. For my part it excited in my mind a thousand melancholy resections, and I could not but regret that such rudeness had been offered to the ashes of the dead,

as to expose them thus to the public view.

'The body seemed to have been preserved in some liquid, nearly of the colour and appearance of brandy: the whole cossin seems to have been full of it, and all its contents saturated with it. The body had assumed somewhat the same tinge, but this served only to give it a fresher look; it had none of the gastly livid hue of death,

but rather a copper complexion.

It would, I believe, have been difficult for a chemist to ascertain the nature of this liquid; though perfectly transparent, it had lost all its pungent qualities, its taste being quite vapid. I have heard, however, that several medical gentlemen carried off small phials full of it, but do not know whether they made any experiments with it. The rich odoriserous flavour continued not only in the vault, but even in the church, for many weeks, as can be attested by many hundreds; all agreed that it was a mixture of perfumes, but of what kind it was not easy to say: the most prevalent seemed to me to be that of spirit of turpentine, and it is certain that this odour continued the longest.

'The head reclined on a pillow, and as the covering decayed, it was found to contain a collection of strong scented herbs. Balm, fage, and mint, were easily distinguished, and it was the opinion of many that the body was filled with the same.' Vol. ii. P. 209.

Bothwell castle, Hamilton house, and the surrounding scenery, offer nothing particularly new. The fall of Stone-bryers, Corra, and Bonniton Linns, do not materially differ from those we have already noticed in scenery more appropriate and solemn: in the route too of more numerous travellers, they have often been objects of attention, and personal observation. New Lanark owes its rising prosperity to the cotton mills; and under the management of Mr. Dale, this usually unwholesome occupation, as well as source of immorality, has been converted into a salutary institution in each respect. Of near 3000 children, employed between the years 1785 and 1797, only sourteen have died, scarcely more than one in twelve months.

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Moffat is famous for its mineral water, Which has been more than once analysed. A wine gallon wis found, by our author, to contain 36 grains of muriat of foda, ten cubic inches of sulphurated hydrogen gas, four of azotic, and five of carbonic acid gas. The summit of Hartfell is 3300 feet above the level of the fea. He discovered in this neighbourhood a chalybeate also, containing, in a wine gallon, two grains of oxyd of iron, thirteen inches of carbonic acid gas, and three of azotic. The picturesque scenery of Belle Craig, the Grey Mare's Tail, a beautiful cascade in the neighbourhood of Moffat, and Loch Skene, also in its vicinity, employ the conduding pages, but are not sufficiently interesting for an extract

or an abridgement.

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On leaving these volumes, we must not neglect the ornamental parts, perhaps their chief merit. After carefully examining the 'Observations,' we find little that our author's predecessors have not noticed, few parts which have not been more accurately or more scientifically described; and what we have selected, though we have preferred descriptions in which something was added to the picture, or in which some interesting traits were more fully distinguished, will not always have the charm of novelty. In the engraven views of different parts, Mr. Gilpin also preceded our author; but his plates, in his peculiar style, gave only the general effect. In these respects, Mr. Watts, Dr. Garnet's coadjutor, rises far above the picturesque traveller; and his tinted views are often clear, beautiful, and appropriate. To fay that they are not always equal, would be to detract little from his praise-Servetur ad imum qualis ab inccepto' is a rule worthy of oblervance, but which can feldom be purfued with fuccess. We intended to have closed this article with some minute remarks on the drawings and the engravings; but we found the greater part so well executed, and the defects (often those of the engraver only) fo few, that the task would have been invidious. Where apparent errors are discovered, it will be necessary for the critic to attend to the explanation and the object of the draughtsman, as particularly stated by Dr. Garnet. In this we allude to the representation of Fingal's Cave, and some other plates. The lift we shall add.

^{&#}x27; View from Dalnotter Hill - Dumbarton Castle-Dr. Smollett's House and Monument-Rosedoe-Lochlomond-Map of Lochlomond-Lochlomond, from the Hill above Lufs-Loch Loung-Glencroe-Inverary-Kilchurn Castle-Dumstaffnage Castle-Ferry near Oban -- Staffa-Bending Pillars in Staffa-Fingal's Cave Nunnery in Icolmkill-Cathedral and Bishop's House at Icolmkill-College and Cathedral in Icolmkill-Dunolly Castle-Castle Stalkir - Glencoe - Invegary Castle - Upper Fall of Foyers -

Lower Fall of Foyers—Liower Fall of Bruir—Upper Fall of Bruir—York Cafcade—Fall of the Tummel—Banks of the Tay—Dunkeld Cathedral—Cafcade at Dunkeld—Offian's Hall—Neil Gow—Taymouth—Fall of Moness—Loch Tay—Perth—Loch Leven—Rumbling Bridge—Castle Campbell—Stirling—Doune Castle—Trosachs—Loch Catherine—Glasgow—John Anderson, M. A. F. R. S.—Lady Kilsyth—Stonebyres—Corra Linn—Mossat—Belle Craig—George Buchanan.

In the appendix we meet with an account of the life, and in some measure a defence, of George Buchanan. An itinerary is also given in this part of the publication, and a copious index is subjoined.

Practical Observations on the Revelation of St. John. Written in the Year 1775. By the late Mrs. Bowdler. 8vo. 55. fewed. Robinsons. 1800.

I HE book of Revelation is treated with great neglect by the majority of Christians. The difficulties attending the explanation of feveral visions mentioned by the inspired writer of the Apocalypse tend to preclude the acquisition of those advantages from this part of scripture which its insertion mo the canon must lead a pious Christian to expect. The teachers of Christianity indeed are highly criminal when they neglect this work; for how can their leifure be better filled than in comparing events as they are recorded in history with the predictions of them in the book of Revelation, and, from the fulfilment of prophecy in many instances, in opening the door to future discoveries? The more unlettered Christian, not having these advantages of leifure and of books, must be content with a more imperfect view of Revelation: if he cannot so clearly see the dispensations of Providence in the history of the church, it is still in his power to note the corruptions described by the apostle, and to be on his guard against them, by whatever worldly authority they may be supported. In this respect the present work claims a confiderable degree of The authoress does not pretend to give an histoattention. rical folution of every vision: she does not aim at unravelling every mystery; but she points out those general remarks which are interspersed throughout the Revelation, conveying instruction and spiritual improvement to the reader.

Some of her explanations we cannot receive without help tation. The mark of the beast is not, she thinks, to be looked for in the church of Rome; and the name of blasphemy refer to an apostasy which cannot, she thinks, be affirmed of the popish religion. On the contrary, the two witnesses are, it

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chapter court, a will be explain her opinion, 'types of the two great portions of the Christian church divided into east and west, or (as now called) the Greek and Latin churches: they do not cease, however injured by corruptions, to bear testimony to Jesus: their death, or the seeming destruction of the whole Christian economy, will occasion great joy to unbelievers; and their 'revival will coincide with the preaching of the angel, and will seem to be the same thing; viz. the conversion of the Jews and the revival of the Christian saith.' There is something plausible in this idea; yet the splendor of the Greek and Roman churches in the dark ages can hardly correspond with the type of witnesses clothed in sackcloth and athes.

But, if we cannot agree with the authores in this and some other explanations of the prophecies, we highly approve the instruction she points out from the images introduced by St. John. As a specimen, our readers will be pleased with her

reflections on the beafts.

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'In the description of our enemies, the beasts, &c. we see those vices we ought to avoid. In the first beast, that is, the antichristian kingdom itself, we find treachery expressed by the leopard, fullen obstinate cruelty in the bear, and fierce active rage in the lion; all characters too readily to be pointed out in the tyrannic empire which has been supposed to be here represented. In the second beast, or ruler of this kingdom, we find hypocrify in the assumed character of the lamb, and deceit of every kind in the falle miracles. Nothing can be more truly antichristian than these dispositions; more opposite to Christ, whose meekness and simplicity, whose truth and unbounded charity, it is our glory to imitate. The restraint on buying and selling, that is, on all the enjoyments of life, which none are allowed to partake of but those who receive the mark, shews the rapacious covetousness and proud oppression of these rulers; and how needful the warning of our blessed master, that we should for sake all that we have, and take up the cross and follow him.

'In the company attending the lamb with a fong peculiar to themselves, is set forth the great reward of undefiled innocence, and of that child-like simplicity so expressly recommended by our blessed Saviour.' P. 162.

Her reflections on the last judgement are judicious, and prove that she had imbibed from the study of the Revelations just notions of that great and important event.

Such is the scene, whether real or symbolical, which the last chapters of this book set before us. In presence of this awful court, as here represented, perhaps, the whole history of mankind will be rehearsed; the causes and effects of natural events will be explained; the actions and the most secret thoughts of all men be

revealed; and the conduct of divine providence be fully justified. Perhaps (fince every idle word must be accounted for, though not in itself criminal) our foolish thoughts, our vain conceits of our own merit, those artful disguises by which we endeavour to deceive men, will here be manifested before all, for the eternal confusion of the impenitent, and to fix in the minds of those that shall be faved an humble sense of their own weakness, and an unbounded confidence in the wisdom, power, and goodness of their God. We are apt in this life to excuse our faults as unavoidable; our fins appear always trifling, if they do not rife to the highest pitch; if free from theft, from murder and adultery, we think we may be allowed even to account ourselves righteous; while, perhaps, those criminals whom our laws condemn, may feem lefs guilty before God than than those who, without any sense of gratitude, enjoy the bleffings with which Providence entrusted them for the benefit of mankind, All fins are not alike criminal; but I doubt we are very unfit to weigh the difference; he who indulges malice in his heart, and by pitiful contrivances endeavours to hurt another, would probably, under different circumstances, have been led on to poison or affaffinate his enemy. She who spends her whole thoughts on dress, and endeavours to allure mankind to admire her, only to gratify a foolish vanity, to triumph over her fellows, and indulge more freely an unbounded love of pleasure, has sometimes less right to book of her chastity, than the poor, deceived, forfaken wretch, who came her bread by proffitution. The studious or active philosopher, who, by their pursuits of knowledge, are grown insensible to the temptations of pleafure and ambition, too often indulge a great degree of pride, and laugh at the men of the world, whom they allow themselves to despise, only because they cannot taste or attain to the fame enjoyments. The man who is wholly engaged in purchasing riches, is feldom disturbed by the pursuit of power or pleasure; those who plod on in domestic life, without considering its extenfive duties, are often more engrossed by attention to a few shillings than others are in getting pounds; and these last, while they see no great faults in themselves to be amended, suffer their hearts to grow hardened to the wants of others, their tender feelings to lie unemployed, and devotion to fink into a dull lifeless habit. We know our hearts' cannot be concealed from God; but it might be of use to many of us to consider the day of judgment in the light in which this book feems to place it, as a general review of what ever has passed here on earth, bringing to light every motive of action, every thought of the heart, and even every idle word, as our Saviour expressly says; and all this in the awful presence of Christ, of his holy angels, of those just men called to fit with Christian his throne, and of our fellow criminals, whose frowns and whole laughter we have stood in awe of here below, so far as often to far crifice to such considerations our duty towards God, our faith, the rights of truth and justice, and the peace of a quiet conscience.

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Schiller's History of the Thirty Years' War in Germany. 431

The feverity of this scrutiny does not, I suppose, consist in the bringing every idle word to punishment, as of itself criminal, but in bringing it forth to be exposed to censure; the trial is severe;

the sentence will no doubt be merciful.

The intent of this severe inquest is, to justify before the whole world the righteousness of God; to make known his glorious attributes; to convict the wicked and exalt the just, and to humble those who exalted themselves here below, and were content if by any art they could conceal their impersections; that now, acknowledging their own misery and the justice of their judge, they

may be fitted to obtain mercy.

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This representation of things (as I have said upon other occasions) may, if we please, be considered as a picture, not as a reality;
but let us consider at the same time that it is a picture of something
that will be real; a picture by which we are to be instructed; and
let us therefore think on every occasion, what our feelings would
be in the presence of such a tribunal; and whether any "fiery
trial" could go beyond it? Whatever is meant thereby, the scene
is truly sublime and awful, and lists the imagination above those
things, which so fully engage the affections of most men here below.' P. 170.

We offer these extracts to show that the study of the Revelations may be very profitably pursued, though it may not end in a persect knowledge of ecclesiastical history; and we are happy in being able to recommend a work which may with advantage be put into the hands of young clergymen, as an excellent introduction to the more laborious investigations of Vitringa, Daubuz, Mede, Jurieu, Towers, Bicheno, and others, with whose writings it is incumbent on them to make themselves acquainted.

The History of the Thirty Years' War in Germany. Translated from the original German of Frederic Schiller, Aulic Counfellor, and Professor of Philosophy at Jena, by Captain Blaquiere, of the Royal Irish Artillery. 2 Vols. 8vo. 12s. Boards. Miller. 1799.

THE idea of 'a thirty years' war' must shock every seeling heart. A philosopher may at first suppose that none but savage tribes, or pagan communities, could have carried on such a war: but, on recurring to the experience of history, he will find that the most enlightened nations have been almost as prone to war as the most rude and uncivilised. How are we to account for this strange propensity? Some may answer, that the brutality of the lower classes of the people, who are more swayed by passion than insluenced by reason, will

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folve the difficulty: but this allegation is infufficient, as wars are more frequently produced by the pride and ambition of princes than by the folly or rage of the people. Though edu. cation enlarges the mind, and enables it to perceive the abfurdity and wickedness of a licentious indulgence of the pastions, man is to inconfiftent, that he fuffers the theory of vir. tue to give way to the practice of vice; and, reflecting that he cannot be perfect, he is the less eager in his endeavours to correct his impersections. The high and the low, the prince and the peafant, are in different degrees the flaves of their palfions: fo powerful are the operations of these natural agents, that good fense and philosophy are too frequently unable to make effectual refistance. If one nation should be so prudent and moderate as to avoid offensive war, a neighbouring community may not be equally wife or humane; and, from the ambition of the latter, hostilities may arise, which the former must endeavour to repel. Upon the whole, we have little reafon to expect that war will foon cease among mankind; for benevolence and humanity have not kept pace with the improvement of nations in arts and sciences, or with the progress of exterior refinement.

From these reflexions, which were suggested by the title of the present work, we proceed to an examination of the history itself. All our readers may not recollect, that the war of thirty years arose from the combined influence of religious dissensions and political ambition; that it commenced in Bohemia in 1618; that it extended its ravages over a considerable part of Europe, and was terminated by the celebrated treaty of Munster. It displayed the courage and talents of several heroes; and this circumstance, in the opinion of many, may compensate the destruction which it occasioned. It also evinced the ill effect which war has in brutalising the minds of men, as it exhibited some scenes of deliberate barbarity, at the mention of which every reader who has the least trace of humanity must feel strong emotions of horror and disgust.

Schiller, before he relates the incidents of the war, traces the effect of the Reformation on the principal states of Europe, and particularly mentions its progress and influence in Germany. He proceeds to treat of the divisions and disturbances which it produced in Bohemia, and exhibits a just view of the politics of the European courts at the beginning of the war.

The bigotry and ambition of the emperor Ferdinand II. are reprobated by our author; but, in general, he feems too partial to the memory of that despot. Gustavus Adolphus is praised and admired with more justice, though some parts of his conduct are censured. The Imperial general Wallenstein is frequently brought forward; and the features of his char

Schiller's History of the Thirty Years' War in Germany. 433
racter are pourtrayed with spirit. Of his style of living, after his dismission from his command, we find the following account.

His intentions were by no means fixed on repose while he returned to a private station. In his folitude he was surrounded by a regal pomp which appeared to reproach his degradation; fix gates led to his palace in Prague, and a hundred houses were demolished in order to clear the furrounding space. Similar palaces were built upon his numerous estates; gentlemen of the first families sought the honour of feeing him, and Imperial chamberlains were known to deliver up the golden key in order to exercise that duty under Wallenstein; he maintained fixty pages, who were instructed by the most able masters; his antechamber was protected by fifty lifeguards; his table never confisted of less than a hundred covers, and his house-steward was a person of distinction; when he travelled, his fuite and baggage were carried upon a hundred waggons, drawn by fix and four horses; his court followed him in fixty coaches, attended by fifty led horses; the magnificence of his liveries, the splendour of his equipage, and the decorations of his apartments. were in proportion; fix barons and as many knights continually attended his person; twelve patroles went their rounds in his palace, to prevent any disturbance; his busy genius required filence; the noise of coaches was not permitted near his residence, and the streets leading to it were often that up with chains. His deportment was no less impenetrable than his access; dark, reserved, and profound. he was more sparing of his words than his gifts, and the little that he spoke was uttered in unamiable accents; he never smiled, and the coldness of his temperature withstood all fensual gratifications. Ever occupied by the most extensive schemes of ambition, he rejected those idle dissipations in which others spend the best part of their time; a correspondence throughout Europe he managed himfelf, and the greater part of his letters were written by his own pen." Vol. i. P. 218.

Count Tilly, who succeeded Wallenstein in the command of the Imperial army, rendered his name infamous by his atrocious cruelties. He is thus characterised by Schiller.

Equally strict towards his troops, implacable towards his enemies, and of as impenetrable a disposition as Wallenstein, he far exceeded the latter in probity and disinterestedness. A bigotted zeal for religion, and a bloody spirit of persecution, united with the natural ferocity of his character to render him the terror of the protestants. A strange and terrific aspect betrayed his disposition; of low stature; meagre, with hollow jaws, a long nose, a broad forehead, large whiskers, and a sharp chin. He commonly appeared in a Spanish doublet of green atlas, with close sleeves, and a small high-crowned hat, decorated with an enormous red feather, which reached down as far as his back. His whole aspect recalled to re-

434 Schiller's History of the Thirty Years' War in Germany. collection the duke of Alva, the scourge of the Flemings, and his actions were far from effacing that impression.' Vol. i. P. 248.

In estimating the loss of men in the battle of Leipzig, the historian diminishes the number of the Swedish victims to a smaller number than the generality of accounts have mentioned. It is more probable that fourteen or fisteen hundred of the troops of Gustavus sell on the occasion, than that he only lost seven hundred.

The reflexions on the victory obtained by the Swedes at Leipzig, and on the subsequent conduct of Gustavus, will serve as a specimen of Schiller's style of remark.

'The glorious victory of Gustavus Adolphus had effected a great change in the conduct of that monarch, and in the opinion which both his friends and his enemies entertained of him. He had confronted himself with the greatest general of the age, and, by the force of his tactics and Swedish valour, conquered the Imperial troops, the best in Europe. From that instant he relied upon himfelf, and felf-reliance has ever been the parent of great actions. Had not Alexander's impetuofity triumphed upon the Granicus, never had that conqueror overturned the Persian empire. Bolder and more dexterous measures were henceforward observed in the operations of the Swedish king; greater resolutions, even under unfavourable circumstances, more defiance towards his adversaries, greater mildness to his friends, and forbearance towards his enemies. His native courage was also augmented by his piety. He readily confounded his own cause with that of Heaven; and beheld in Tilly's defeat the work of divine vengeance, His crown was now risked upon German ground, which had for centuries beheld no foreign enemy. The warlike disposition of its inhabitants, the vigilance of its numerous princes, the artful confederacy of its states, the multitude of its strong castles, and the course of its rivers, had hitherto restrained the ambition of its neighbours; and when attacked upon its extensive frontier, it was still secured in its interior. At the most remote periods this empire maintained the equivocal prerogative of being its own enemy, and of being fecured against every foreign force. It was also the want of union among its members, and an intolerant zeal for religion, which now procured the Swedish conqueror an entrance into its territories. The bond of harmony was already dissolved, which had rendered this empire hitherto invincible; and it was from Germany itself that Gustavus Adolphus acquired the power of subjecting it. With prudence equal to his courage, he seized the favourable moment; and equally expert in the cabinet as in the field, he employed the refources of a confummate policy with as much effect as the thunder of his cannon. Uninterrupted, he pursued his victory in Germany, without once losing fight of his own dominions. . The consternation of the emperor, and of the Catholic League,

Schiller's History of the Thirty Years' War in Germany. 435 could not exceed the aftonishment of the Swedish allies at the king's unexpected good fortune. His exploits surpassed even the most ardent expectations. The formidable army which had checked his progress, set bounds to his ambition, and rendered him dependant upon his friends, was now annihilated. Single, and without a competitor, he appeared in the midst of Germany; nothing could stop his career, or interrupt his pretentions, were he, even in the intoxication of fuccess, inclined to abuse his victory. If the emperor's authority was formidable in the commencement, equal fears might now be entertained, from the impetuofity of a foreign conqueror, for the constitution of the empire, and, from the zeal of a protestant king, for the catholic church of Germany. The distrust and jealoufy which had for some time subsided in the minds of several of the combined powers towards the emperor was now rekindled, and scarcely had Gustavus Adolphus merited their confidence, when they began to oppose obstacles to his designs. He was obliged to purchase his victories amid a continual struggle with the artifice of his enemies and the jealousy of confederates; but his refolute courage and deep penetration overcame every obstruction. Vol. ii. P. 5.

The progress of the Swedish monarch is related by our author with more succinctness and animation than by Harte, the dull historian of that hero. The battle of Lutzen, in which he fell, is described in terms suited to the occasion. The account of an imperial officer who was mortally wounded in the same constict, will remind our readers of a modern warrior, equally brave, and not less inhumane. The death of Pappenheim was

an irreparable lofs for the Imperial army, which this excellent warrior so often led to victory. The battle of Prague, at which he was colonel, together with Wallenstein, opened his career. Dangerously wounded, he impetuously threw himself with a few troops upon an enemy's regiment, and lay feveral hours for dead under his horse in the field, until his own party discovered him while they were plundering. He conquered the rebels of Austria, though 40,000 strong, with a small detachment, in three different battles; he long delayed Tilly's defeat at Leipzig by his bravery, and carried the victorious arms of the emperor to the Elbe and to the Weser. His impetuous disposition, which defied every danger, and was capable of any attempt, rendered him the most powerful arm in the Imperial army; but he was unfit for the supreme command. The battle of Leipzig was, according to Tilly himself, lost by his hasty ardour. He also stained his hands in blood during the storming of Magdeburg. His disposition, which had been improved by his youthful application and numerous travels, had grown ferocious under arms: on his forehead two red streaks were perceptible, with which nature had marked him at his birth; these appeared whenever in a passion, even in his later years; and superstition easily persuaded itself that the suture calling of the man was marked upon the forehead of the child.' Vol. ii. P. 159.

The mysterious conduct of Wallenstein after the battle of Lutzen is not clearly explained; and his treason is deemed problematical by the present writer: but its credibility seems to

be established on strong grounds.

The remainder of the history is too concile to be fatisfactory; and no account is given of the progress of the interesting negotiations which put an end to the war. This deficiency, so lamented by the admirers of Schiller, was the con-

fequence of the decline of his health.

Upon the whole, this history does not discredit the reputation of Schiller. It is written in a pleasing manner: the characters are well drawn; and the incidents appear to be faithfully recorded, though the want of references may seem to give the narrative a doubtful air. The translation we do not admire. It may, in many parts, be pronounced erroneous, if we may be allowed to judge without having seen the original; and the style is frequently very remote from correctness.

Biographiana. By the Compiler of Anecdotes of Distinguished Persons. 2 Vols. 8vo. 10s. Boards. Johnson. 1799.

THE ana of the French, of which the author has made great use, evidently gave rise to this publication. The anecdotes will amuse a leisure hour; and they are interspersed with many judicious remarks, both on persons and books. We could have wished that so great a compliment had not been paid to the works of the French nation as to look so closely into their writers for instances; and if in the margin references had been made to the authors from whose publications the anecdotes are taken, the indolent reader might have been led to a good course of historical reading. Among the anecdotes we were happy to see recorded the noble conduct of lord chief justice Holt, which ought to live in the memory of every Englishman, as on the complete separation of the judicial and deliberative powers depends a great part of the excellence of our constitution.

In the reign of queen Anne, 1704, several freemen of the borough of Aylesbury had been refused the liberty of voting at an election for a member of parliament, though they proved their qualifications as such. The law in this case imposes a fine on the returning officer of 100l. for every such offence. On this principle they applied to lord chief justice Holt, who ordered the officer to be arrested. The house of commons, alarmed at this step, made an

order of their house to make it penal for either judge, council, or attorney, to assist at the trial: however, the lord chief justice, and several lawyers, were hardy enough to oppose this order, and brought it on in the court of king's bench. The house, highly irritated at this contempt of their order, sent a serjeant at arms for the judge to appear before them; but that resolute desender of the laws bade him, with a voice of authority, be gone; on which they sent a second message by their speaker, attended by as many members as esponsed the measure. After the speaker had delivered his message, his lordship replied to him in the following remarkable words: "Go back to your chair, Mr. Speaker, within these sive minutes, or, you may depend on it, I'll send you to Newgate. You speak of your authority; but I'll tell you I sit here as an interpreter of the laws and a distributor of justice*, and were the whole house of commons in your belly, I would not stir one soot." The speaker was prudent enough to retire, and the house were equally prudent in letting the affair drop.' Vol. ii. P. 541.

The compiler speaks with more than usual warmth of the character of Burnet; but we were pleased at his zeal for the memory of that prelate.

'The prejudice and the rascality of party has attempted to traduce this excellent prelate's character. He appears to have been a man of true piety and virtue, though occasionally a slave to his credulity. When in residence at his see of Salisbury, he preached every Thursday night in St. Thomas's church in that city. What can be conceived more impressive and more solemn than the conclusion of his history? what stronger arguments can be used in savour of religion, of virtue, and of patriotism, than those he has there made use of? and his appeal to the consciences of his readers is one of the most striking and solemn passages we have in our language. It was printed separately in 12mo. in 1751, by Mr. Millar, and in these times of laxity of principle, and of sluctuation of opinion respecting government, it should be again presented to the notice of the public.' Vol. ii. P. 522.

'Indeed, the whole of this address may, excepting a few political notions not applicable to these times, be perused with great improvement by all those who wish to see the advantages of a peaceful government, of excellent morality, and of a proper sense of religion, pourtrayed in the strongest and most vivid colours.' Vol. ii. P. 525.

fhould not be decided in our courts of law. The decision would be speedier, attended with less trouble and waste of time, the process would be more dignified and serious, and the judgment pronounced with greater solemnity by persons used to evidence and legal decisions on all points.

An excellent trait in the character of George the Second is described with true spirit, and deserves imitation in courts and private families.

'He was much displeased when his civil list happened to be in arrear. This, however, occurred in Mr. Pelham's administration, and he sent for that minister in a great passion, and asked him how this happened. He was told that the money appropriated to that service was wanted for more important purposes at that time. "Mr. Pelham," said he, "I will not be the only gentleman in England whose servants are not paid; and if you will not get me the money to pay them, somebody else shall." Vol. ii. P. 550.

The characters of Dr. Farmer and Warren Hastings are drawn with judgement; and, if there is rather too strong a bias in favour of the former character, the partiality of friendship may be pleaded as some excuse for it. The violence of party having now subsided on the celebrated trial of the latter, and the ravings of Mr. Burke being treated with the contempt which all his party writings and speeches deserve, the account here given of the governor of India will be read by many with great pleasure. It is too long for us to extract; but we will extend our limits to insert the account of one man of whom there are still found Englishmen not ashamed to be called the disciples. This is the celebrated M. Le Chauve, or John Calvin.

"You judge as you love, or as you hate; and you love or hate, as you think fit."—No very honourable account of the candour and

temper of this acute and learned man!

"Greater praise was, however, given to his power of memory; "which," according to Beza, "was so great, that he never forgot a person whom he had once seen; and that although he should have been interrupted in the course of his dictation of any thing for many hours, he could return to it as persectly as if the chain of it had never been broken. Indeed," adds he, "he never forgot any thing which he had ever entrusted to his memory. I speak of such things as it was his duty to remember. His mind was eager and ardent, and therefore received every impression made upon it in a forcible manner. Calvin was like many other persons, who claim for themselves that liberty they deny to others. He caused Servetus to be burnt for differing in opinion with him on religious matters; and afterwards wrote a book, with this title: 'A faithful Account of the Errors of Michael Servetus, and a Resutation of them;' in which it is shewn that heretics should be punished with death."

'Had Calvin's doctrine been put in practice against himself by the Catholic party of France, he never would have been able to have

exercised it upon Servetus.

tary on the scriptures, passed by the Apocalypse, giving as a reason, according to Bodin, "that he was not able to understand any thing in so obscure a writer, whose name and history had not been settled

by the learned."

'Calvin dedicated his "Institutes of a Christian" to Francis the First, in which he addresses him with that freedom with which a prejudiced and persecuting prince should be treated. Joseph Scaliger said of Calvin, "That he was the greatest divine that had ever appeared since the days of the apostles." Happy indeed had it been for him and his disciples had they imitated the apostles, no less in their gentleness than in their wisdom; and had the dove and the serpent been united in their character.' Vol. i. P. 57.

A fingular anecdote of the Jesuits presents us with the means of forming the best estimate of that pernicious society.

Of the superior intelligence that prevailed among the order of the Jesuits, the following anecdote has been often mentioned by an English gentleman in Lincolnshire: " He had resided some time in Portugal, and was at dinner at the English minister's, when he was called out of the parlour by a person who insisted upon speaking to him, and who told him, with great earnestness, and in a tone of voice not to be counterfeited, 'You must fly this country immediately, and get on board a ship bound for England. I have very cogent reasons for giving you this advice, which I cannot give you now; but I hope, from the bottom of my heart, you will follow my advice.' The gentleman did as he was defired; and many years afterwards, walking in the streets of Wisbech, in the Isle of Ely, he observed a butcher's servant dressing a calf with the utmost niceness and dexterity. The butcher looked very earnestly at him; and the gentleman faid to him, 'I think I have feen your face before.'-So you have, Sir; and if you will go out of the high street into a private place, I will tell you where.' The gentleman did as he was defired, and was foon followed by the butcher; who faid, Do not you remember, Sir, a person who gave you some remarkable advice at Lisbon?-I am that person. You had said something against the inquisition of that city, and the officers of it were in search of you; I gave you that notice in confequence of fome friendly office you did to one of my fociety (that of the Jesuits) at Rome. A kind action, any more than an unkind one, that is done to any of our order, is never forgotten, and we keep registers to record them." Vol. i. P. 63.

By these extracts our readers will be enabled to form a just estimate of the work, which may excite young persons to a more regular course of study, and amuse the student by recalling to his memory his own remarks on history.

Observations on the Effects of various Articles of the Material Medica in the Cure of Lues Venerea, illustrated with Cases. By John Pearson, Senior Surgeon of the Lock Hospital, &c. 8vo. 14s. Boards. Callow. 1800.

WHEN the minds of practitioners have been prepossessed in favour of a new remedy, by novelty, fancy, or accidental success, experience only can destroy the delusion, and the real value of the remedy must be ultimately appreciated by calm observation, independent of eager predilection, or an equally injurious prejudice. It is fortunate for mankind when this period arrives, and we can examine the disputed question on a secure foundation. On the present subject much has been some by Mr. Pearson. If, in some points, he has not completely met our ideas, and if, in others, different practitioners should still hesitate, we have no scruple in saying, that he has made a very considerable progress in ascertaining the real importance of many boasted remedies in the dangerous and disportance of many boasted remedies in the dangerous and disportance of many boasted remedies in the dangerous and disportance of many boasted remedies in the dangerous and disportance of many boasted remedies in the dangerous and disportance of many boasted remedies in the dangerous and disportance of many boasted remedies in the dangerous and disportance of many boasted remedies in the dangerous and disportance of the progressiant of the dangerous and disportance of the progressiant of the progressiant of the dangerous and disportance of the progressiant of

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It gives us pleasure to hear, that Mr. Pearson intends to offer the result of his very extensive experience on this disease in general; and we find that he adopts the opinion which we long fince published in this journal, that the lues did not originate in America. The effects of two medicines for this diforder he is now investigating by experiment, viz the oxydes of copper and of iron: the refult of this inquiry we shall receive with pleasure; for though we think with Mr. Pearson, that mercury is the only real remedy for this disease, there are some fituations in which it is inadmissible, some constitutions with which its use cannot be continued, so as to ensure success. Other remedies are therefore at times necessary; and should any be found that would, even for a time, palliate the difease, or for a short period prevent its progress, the discovery would be valuable. In this view we confidered the introduction of the nitrous acid as an important improvement; for we never expected from it a cure; and to this merit it still appears to be chiefly entitled.

The introduction contains the general views of the earlier practitioners on the subject, and particularly their methods of curing the disease by evacuations, by active and robust exercise, vegetable diet, &c. Though many directions of this kind have been copied into respectable works, we may affirm that these plans will be unsuccessful. Mr. Pearson represents the guaiacum as unequal to the cure of the complaint, though it will sometimes suspend the primary and secondary symptoms, and sometimes appear even to remove them. The chief use of the guaiacum is to relieve the contractions of the joints, and

other sequelæ of the disease; but, even in these, our author has not found it more advantageous than any other sudorific. When it is used with the mercury, he thinks it does not materially affist the action of the mineral, or expedite the cure.

Of the China root, the reputation is fo inconfiderable, that practitioners in general difuse it. Of the sarsaparilla others entertain (and we own ourselves of the number) an equally unfavourable opinion. Mr. Pearson is more partial to it. It will not, he thinks, remove the primary or fecondary fymproms of syphilis, or cure any form of the disease: it will not effen the quantity of inercury necessary for the cure, or expedite Yet, after a course of mercury, surfaparilla will its progress. remove articular swellings, nocturnal pains, &c; but these are the effects of the disease, not syphilis itself; for the real disorder will, when prefent, not be influenced by the remedy, though it feems to abate the violence of some symptoms, and retard the progress of others. These latter effects we have never found; but think we have feen all the good consequences attributed to farfa from the mezereum, which Mr. Pearson represents as a medicine in every respect inferior.

The Peruvian bark, though not generally recommended as an antifyphilitic remedy, will, as our author truly observes, often remove venereal mortifications, and check the progress of ulcers, in cases where mercury has been used. We have often found it serviceable; and, in our hands, the bark has produced all the good effects we could obtain from opium. Mr. Pearson is of opinion that this last remedy cannot be trusted in the cure of lues; or that, when given with mercury, it only prevents the disagreeable effects of the mineral, without adding to

meanell cabin. Many of the reflexions which he .yosofts at

The cicuta, fassafras, juniperus, bardana, saponaria, and dulcamara, are of little real value as antivenereal remedies. Of the green rind of the walnut our author speaks with more respect, but chiefly as increasing the virtues of the Lisbon dietdrink. The lobelia syphilitica and astragalus escapus have not, from experience, supported the high characters with which they were at first introduced. The volatile alkali, lately recommended, in our author's opinion, acts only as a sudorific; and sever, which is supposed occasionally to suspend, or to remove the effects of syphilitic virus, according to Mr. Pearson's experience, has no such power. The muriated barytes he found almost useless.

Mr. Pearson next considers the efficacy of several boasted preparations of mercury, and particularly traces the progress and fall of the corrosive sublimate with much candour. He prefers the mercurial ointment, giving calomel or the calcined mercury, which he seems to think more useful, in order to bring on the effects of the mineral more rapidly, or to guard

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against relapse. The remarks on some of the effects of mer, cury are particularly valuable; and the whole of this pan of

the work fully coincides with our own experience.

The two first mineral acids seemed to check for a time the progress of the disorder, and to remove the secondary symptoms; but the nitrous certainly removed, in some cales, the primary symptoms, and appeared to prevent the secondary. Yet our author thinks that this acid never effected a permanent cure where secondary symptoms were present. Sometimes it has altogether failed. It is, however, in his opinion useful as a tonic, and may be employed with advantage when mercury cannot for a long time be continued.

On the whole, we are highly fatisfied with Mr. Pearlon's observations, and cannot too strenuously recommend them to the particular attention of practitioners: the oldest and most experienced may derive information from this little work.

Rambles through Ireland; by a French Emigrant. Translated from the French of Monsieur de Latocnaye, by an Irishman. 2 Vols. 12mo. 6s. Boards. Robinsons.

HE writer of this work made a tour through Ireland on foot; and for the honour of that country it may be observed, that he was received, notwithstanding the smallness of his wardrohe, with great hospitality by most of its best families Hence he had an opportunity of being well acquainted with the manners of the people. At one time he fpent his day in the villa of a nobleman, at another he passed his night in the meanest cabin. Many of the reflexions which he makes during this tour do honour to his heart and head, though he thinks it necessary to use a few oaths as expletives, from a preposedfion very common with foreigners, that Iwearing is an ellential part of a polite English education. Some of his ance dotes are given with great nazvete; and the Irish cannot but be pleafed that their national character is placed in a higher point of view than, fuits the prejudices of the English colomilts. We rife up from a perufal of this work with a more full conviction that all the evils of Ireland have arisen from fingle cause, the want of union between the English settlers and the descendants of the original natives, which has subfifted for fo many ages, from the ignorance of the true interests of both parties. Had the conquerors and conquered been permitted to coalesce from the first, and the latter been admitted to the full participation of all the civil rights of the formen they would be now as much attached to the English confine tron as the Welfh and Scots, and it would be as difficult to difunite them as it is now to perfuade even forme of the English RIT. KEV. VOL. XXIX. August. 1800.

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Our readers may be amused by some instances of our author's manner of telling his story. He was witness to the riot which occurred at the commencement of the fession of parliament in 1796, when two lost boreer a ve tes

handsome young women were so much alarmed, that they threw themselves into our arms. When I looked at her who had taken refuge in mine, I gave her a warm embrace, merely to encourage here the Englishman, on the contrary, put his hands on his pockets. This trait may perhaps serve to characterise both nations." Vol. i. P. 12.

His remark on the mode of supporting hospitals, both in England and Ireland, is natural in a foreigner.

I do not like to fee the fuccour given to the poor depend thus upon the caprice and whim of the day. If it was not the fashion to subscribe, what would become of these establishments?-They were formerly supported by land-rents, but they were deprived of. them by the Reformation, and some rich families took possession of them, in order to prevent the dilapidation, of which the administrators were accused.' Vol. i. P. 36.

If it was not the fashion to subscribe, that is, if it was not the fashion of the nation to be humane and generous! but, by continued opportunities of being fashionable in real good, the humanity and generofity of the nation daily increase; and, if a few are beneficent from oftentation, multitudes practife benevolence from a fense of honour, duty, and religion.

We recommend the reflexions of this stranger to the inhabitants of Cork, who, by his account, have more to do than the inhabitants of any other place for their own comfort, and for that of all who vifit them. His mode of governing the Irith is not to be despised, and, at any rate, deserves a trial.

These priests have great influence over the people; they are, in a great measure, judges, and decide all disputes with astonishing precision. It would be dangerous to displease them, or to refuse to pay their scanty pittance. Government knew their power, and yet have made enemies of them by ill treatment. The right method of gaining over the people would be to gain over the priests. I am convinced that a dozen fat benefices in favour of catholic priefts, at the disposal of the lord lieutenant, would foon make them as supple, as courteous, and as studious of pleasing, as their dearly beloved brethren, the bishops and ministers of the protestant church.' Vol. i. P. 192.

The Irish, it feems, preferve among them a very old culsom, which is universal among the Russians. Near Ennis444 Translation of the Table of Chemical Nomenclature.

kellen our traveller found the fweating-houses, of which he gives the following description.

The reader must, I suppose, be at a loss to conceive what they mean by a sweating house; sigure to yourself an oven five or six feet high, and about three broad, exactly resembling a thimble, and into which people get by a round hole on a level with the ground, and a foot and a half in diameter.

hot, four or five persons quite naked contrive to get into it through the hole, which is then stopped up with board, plaistered over with dung. These wretches remain five or fix hours in this stove, without being able to get out; for even though some of them get ill, they would not take down the board before the usual time. They are scarcely in when they are covered over with a profuse perspiration, and are generally much leaner when they are going out than when they had come in. Wherever there are five or fix cabins together, you may be sure of finding one of these stoves; and the peasants make use of them, whatever their complaint be.' Vol. ii.

P. 87.

The writer's account of the best society in the British em-

A stranger, who wished to become acquainted with the inhabitants of the three kingdoms, and to see the best of them with respect to information and politeness, should get himself introduced to the merchants of London, the lawyers at Edinburgh, and the nobihity and rich gentry at their country-seats in Ireland.' Vol. ii. P. 172.

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On the antiquities of this country are some good remarks; and the whole may serve to amuse a leisure hour much better than many works of the kind. But we are forry to add, that the translation is extremely faulty, and that disgraceful negligence is visible in almost every page. We should be glad to see the book in a better English dress.

A Translation of the Table of Chemical Nomenclature, proposed by De Guyton, formerly De Morveau, Lavoisier, Berthollet, and De Fourcroy; with Explanations, Additions, and Alterations: to which are subjoined, Tables of single Elective Attraction, Tables of Chemical Symbols, Tables of the precise Forces of Chemical Attractions; and Schemes and Explanations of Cases of single and double Elective Attractions. Second Edition, enlarged and corrected. 4to. 14s. Boards. Johnson. 1799.

in many respects a new work. It is not merely a translation

of the new Nomenclature, but a correct and valuable abstract of the whole science. The utility of connecting, with the tables, of nomenclature, those of fingle and double elective atmaction, as the arrangement of the new nomenclature displays fo great a number of attractions, must be sufficiently obvious. To these, with equal propriety, are added tables of the precise force of chemical attractions between different substances, and cases of double elective attraction, with various methods of illustrating their mode of agency. We also find a table of symbolical characters, the short hand of chemistry. Such tables, indeed, are effential to the understanding of ancient authors; but we could have wished that a table of symbols still more ancient had been added: feveral authors employ fyinbols wholly their own; and we are surprised that the elegant fymbols of Dr. Black were omitted a solar

We have followed this subject from the earliest innovations in the French annals, noticing Mr. St. John's first translation, in our LXVth volume; Dr. Pearson's first edition in Vol. X. New Arr.; and Dr. Dickson's improved Chemical Nomenclature, in which a dry subject of verbal disquisition is enlivened by many pleafing philological remarks, Vol. XXIII. New, Arr. It is now our duty to give some account of those improvements which render this edition one of the most im-

portant chemical works that we have lately feen.

The first part is enlarged with the limits of the sciences, rapidly extended fince the appearance of the first edition. Some judicious observations are interspersed on Dr. Dickson's remarks, and feveral new appellations are 'provisionally' introduced. On these we need not enlarge, or reply to the criticisms of Mr. Keir on the new nomenclature, who still feems to hold fast the falling (more properly the fallen) system of Stahl, while the experiments of Dr. Priestley, in support of the phlogistic theory, continue unchanged.

An analysis of the chemical nomenclature, proposed by Dro Dickson, follows, with the author's reasons for still adhering, on the whole, to the system of the French academicians. In stances of pseudography and false prosody are subjoined.

The explanation of the tables of elective attraction, and the diagrams, illustrating double elective attractions, &cc. as before mentioned, next occur. The author adds his reasons for the alterations and additions, because they are occasioned by the progress of chemical science. This of course leads to some account of the later discoveries. The tables are those of Bergman, now for the first time published in English, in the language of the new nomenclature. From the explanation, we thall extract the following passage, where many important facts are judiciously compacted and comprehensively defribed, to standard svig recorder to the to statut and

446 Translation of the Table of Chemical Nomenclanies.

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It appears that frontian, like baryt, attracts first sulphuric, and nex oxalic, ftronger than any other acids; but it otherwife differ from this earth in the order of attractions. Strontian differs from lime and magnetia, inafmuch as thefe two earths have the firongell attraction for the oxalic acid. It is to Dr. Hope we are in debt for this column. Tromfdorf, I believe, is the only person who has afferted, that strontia attracts sulphuric acid stronger than baryt. contrary to Kirwan and Hope. To the diffinguilling characters of this earth, must be added the lately discovered negative propert'es of Itrontia water and lime water, and of Itrontia and barve water, on mixture, producing no precipitation, which is infoluble immediately in muriatic acid; whereas a precipitation enfues, on mixing baryt water with lime water. It appears also, that murlate of baryt, mixed with muriate, or nitrate of lime, produces a precipitation; but none takes place on mixing murlate or nitrate of baryt, with muriate or nitrate of strontian. Farther; strontia is diftinguished from magnefia, inalmuch as muriate, or nitrate of magnefia produces a precipitation, on mixture, with muriate or nitrate of baryt; but invitate or nitrate of Itrontia produces no fuch precipitation, on being added to muriate or nitrate of baryt, (Kirwan's Appendix to Mineral Waters, 1799.) I find Bergman long ago observed, that a precipitation was produced, on adding nitrated lime to nitrated magnetia, (Elec. Attract.) Quatremere d'Isjonval also observed a similar precipitation, but the English translator of Bergman's Elective Attractions, p. 322, rejects his evidence even in most contemptuous terms. I have introduced these observations, not only on account of their novelty, and ferring to distinguish strontia from other earths, but also for the opportunity of explaining why I have called these tables, Tables of Precipitations, apparently by fingle elective attractions. It now appears most probable, that many precipitations, on which are founded the feries of attractions in the different columns, are cases of triple or even quadruple compounds: at least it has not been shown that many of them are not such compounds. The term fingle elective attraction is unjust also on another account, viz. that the decompofitio. s are scarce ever effected without the interposition of a fourth, or even a fifth substance, especially of calorific and water.

The 2d new column, viz. the 38th, is for the new metallic acid, the chromatic, which I thought much too important to be omitted, although the order of its attractions is established only for three or four bodies, which we owe to the skilful Vanquelin (A. C.

tome 25.)

- It appears that this red acid contains about two thirds of its weight of oxygen—that on parting with a certain portion of oxygen, even to light, it becomes a green oxide. The chromatic acid unites to earths, alkalies, the oxides of lead, copper, &c. It precipitates lead from nitrie acid, regenerating red-lead ore. Chromate of vegalkali, and nitrate of lead, or of copper, give chromate of iead, or

chromate of lead, precipitates the red crystals of chromatic acid, or green chromatic oxide, according to the quantity of the muriatic acid used. Chromate of veg-alkali, with nitrate of mercury, gives cinnabar-coloured chromate of mercury; and with nitrate of filver it gives chromate of silver of a carmine red. We are in debt to Vauquelin for these facts. Chromatic acid is not only found united to lead, but also to iron, as citizen Tassacrt informs us (An. Ch. T. xxx. p. 220.) By alternately melting the ore of iron which contains this acid, with veg alkali, and treating the melted mass with nitric or muriatic acid, the whole was changed into chromate of veg-alkali and muriate of iron. P. 136.

From the additions to the columns, we shall add one other extract.

'Carbon. The new system has manifested this to be one of the most important chemical agents hitherto discovered, although we do not know that it has a chemical attraction for more than five or fix different substances, viz. for oxygen, hydrogen, sulphuret of alkali, iron, and perhaps zinc. It can be precipitated from æther and alcohol by fulphuric acid; from carbonic acid, by the joint affinities of phosphorus and lime or alkali; from olesying gas, by inflammation with oxygen gas; from pruffic acid, by light; in thort, from all animal and vegetable mucilages and oils, by acids or fire: but we know not the precise attractive powers in these cases. It was till Guyton's fine experiments on the diamond (A.C. tome axxi. p. 112.) supposed that the black matter, known by the name of charcoal, was a simple or elementary substance, the radical of carbonic acid. It is now rendered probable, that it is an oxide, confisting of the matter of the diamond and oxygen; that it is the diamond matter oxygenated in the second degree; that the diamond exygenated in the first degree yields an oxide difficultly combustible, fimilar to plumbago and anthracolite of Dolomieu; and that the diamond oxygenated in the third degree gives the carbonic acid. The only simple state of carbon known is the diamond. Sir Isaac Newton inferred, from the denfity and refrangibility, as is well known, that this substance was inflammable. Guyton, as early as 1785, Lavoisier, and Landriani, showed that, on burning in close vessels, or on fusion with nitre, it yielded carbonic acid. Berthollet, in his Treatife on Dyeing, confidered it to be crystallized charcoal. Our very ingenious countryman, Mr. Tennant, afforded additional. and decifive proofs that the diamond contains charcoal; for he actually exhibited it in that state, by decompounding the carbonic acid afforded by its combustion. The account of the experiments of De Guyton, just arrived, exhibits a prospect of the richest field in chemistry which has been laid open fince the discoveries of the composition of water, and of carbonic acid. Indeed, the knowledge of the composition of carbonic acid is only completed by the

discovery of the three different degrees of oxygenation of the diamond as above-mentioned. In the table of nomenclature, then, strictly, in place of carbon, the diamond should now be inferted, and carbon be placed among the oxides of diamond.' Potsible

Tables from Mr. Kirwan's late publication, containing the quantity of real acid taken up by ' mere alkalis and earths,' and conversely the quantity of alkalis and earth required to faturate given quantities of 'real fulphuric, nitrous, muriatic, and carbonic acids,' are added at the end. We cannot dismiss this work without our warmest commendations. Among all the additions made by Dr. Pearson to the progress of science, he cannot boast a greater merit than in this attempt for its adroun the adultions to the columns, we first ed. memsangu

"Carbon. The new lyftem has manifelted this to be one of t Grecian Prospects: a Poem, in Two Cantos. By Mr. Polwhele. 8vo. 2s. 6d. Chapple.

fix different fauft inces, viz. THE interest which is excited by any mention of Greece, the fource of literature and philosophy, places an author in a hazardous predicament. Intrinsic genius would be farther ennobled by its fubject; while the vexatious disappointment of the warmed imagination might thrust mediocrity even beneath its proper estimation. Aware of this, we have been cautious in our verdict of this poem, which, having apparently cost its author great labour, is probably the object of a high degree of

parental affection.

same of charecal, was a simple or viencina w The analysis prefixed to the poem informs us, that one half of it comes from the mouth of a Welch bard, the other half from the guardian angel of Greece—personages very fit to assume the spirit of prophecy which runs through the poem, though not so consistently fettered by the operate structure of a stanza, in whose nine lines but three terminating rhymes are admitted. Hence even the Hudibrastic allowance of fone for fense and one for rhyme' is not always adhered to; and where this involution of structure has not produced a riddle, it has left pure unconnected nonfense, very much resembling the manufacture of the lower classes of school-boys from their wellthumbed Gradus ad Parnassum. The author also, like them, has hunted for variety of epithet, and has thus contrived to deviate fufficiently from common phraseology and common tense. But fuch dignified labours of our poet are not to be walted even when they are abortive: he has therefore more than once (p. 15 and 18) favoured his readers with the confidential fight of the rough draught of his poem. What his judgement urged him to suppress, his vanity could not confign to oblivion; and the ridiculous compromise has been effected by obtruding his crude stanzas at the bottom of the page. Thus also a spurious canto (if two half-cantos make a whole one) is annexed under the title of a postscript. It was detached from the poem, from a suspicion of its being desective in the unities; though in a vision a strict regard to the unities can hardly be judged essentially requisite. In this tale the Grecian isles are 'represented as in a general ferment, from the insults and barbarities of their savage masters' the French, who, being 'sworn foes to nuptial song,' carry away the bride of a young Greek. The Greeks in consequence revolt; and the British sleet is introduced to complete their triumph. If unsounded slander of the French, and unsounded praise of the English, be repugnant to truth and justice, something more solid than the poetic unities is offended by this seeble fiction.

We extract some of the earliest stanzas.

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From Cambria's wizard hills a hallow'd bard with and

Travelling o'er Greece, had nurs'd the heroic muse; Each classic isle survey'd with fond regard,

And caught, at every step, sublimer views:

'Twas now, in Sappho's vivid groves, the dews

Of eve, he welcom'd to his mantling breaft;

Gaz'd the wide landscape, here, with breded hues, There, in the dark attire of shadow drest, And seem'd to taste the breeze that cherishes the blest.

High on a tower, that overtopp'd the trees, His wild harp whispering a congenial sigh, He ravish'd inspiration from the breeze, As stretch'd afar, beneath a golden sky,

The varied mountains charm'd his wandering eye;
Blue-tinctur'd points, white rocks at random flung,

That sparkled thro' the pine-wood's duskier dye; Chasms yet unsun'd, where founts descending rung; Green slopes, with blossoms veil'd, with melting fruits o'erhung.

'Thro' a bold opening of the mountains, gleam'd.
The deepen'd azure of the Egean wave;

And, far off, where the western radiance stream'd,

The isles, as all in motion, to deceive

The eye, with every furge appeared to heave
Their flushing cliffs, now faded from the fight;

When from the dream poetic fancy gave,

The bard awoke—a dream of short delight—

And view'd the illustrious scene fast sinking into night.

"So (cried the poet) fo, imperial Greece!
Thy closing honours vanish'd into shade;
Tho' not, alas! so calm'd by halcyon peace,
With not a tint to soothe the soul, array'd!

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The fick day struggled o'er a lengthening waste;

Thy marble fanes in one wide ruin laid;

Mingled with common earth each work, that grac'd

Or wisdom's solemn love, or line pictorial taste.

Each mally tower, each decorated dome;
See the rent arch, the hoary cornice strew'd,

As sculpture moulders in Cimmerian gloom;
Tho, yet a moment, where thro' meadowy bloom

Ilyffus, murmuring, wash'd the bowers below,

The lage, in fighs, may paint his sweetest home,

Still o'er his path as planes their umbrage throw,

And streams, to fancy dear, in lingering lapses flow.

Lo, where o'ercanopied in Doric state,
Her Phidias' art the Athenian goddess crown'd,
And thro' revolving ages sternly great,
Thro' all her shadowy pomp of columns, frown'd;
Till cold neglect to briars that twin'd around
Each fretted base, resign'd her temple's same;
'Till late, the blacken'd fragments smote the ground,

As jealous Adria, with ill-omen'd aim,
Whirl'd thro' the shivering walls the sierce sulphureous same.

"And lo! the dome that crumbles into dust,
Whose Parian whiteness lur'd the glowing skies;
Which breath'd from every animated bust
That dasht amid Corinthian soliage lies,
The hero-spirit of some great emprize!
And, featur'd with the traits of grandeur past,
While thro' its fractur'd roof rank weeds arise,
See to the winds of heaven their temple cast:

See to the winds of heaven their temple cast; Its monumental voice, re-echoing every blast.

Majestic Athens! Who, thy ruins pil'd
In aweful heaps surveys, nor drops a tear?
Who dares approach, by fancy unbeguil'd,
That space, where genius wont its scene to rear,
And dart thro' horrent crowds the illusive sear,
As torches trembled, or as daggers bled,

And founds not human met the shuddering ear?

Who, thro' the pictur'd porch, unheeding, tread,

Nor conjure up in sighs the philosophic dead?"

P.

The stanza of Spenser is peculiarly unfit for Mr. Polwhele's poetry. His language is never perspicuous, and sentences in which the syntax is perpetually inverted must be difficult in proportion to their length. In common with some other writers, Mr. Polwhele seems to believe that poetry should be

polike profe as possible, and that it ought to assouth therear by its firangeness of conftruction, as well as delight it by its hamony.

Haud longum tales ideo lattantur, et ipfi
Sæpe fuis superant monumentis, illaudatique Extremum ante diem fætus flevere caducos, Viventerque suæ viderunt funera famæ.

The most valuable part of this publication is contained the notes, which convey some miscellaneous information. However, much needless obscurity is designedly left in the text, to force recurrence to the notes, and gratitude to the author. Of this vicious stage trick the note respecting Achilles in the following stanza is a specimen.

" And, haply, if her more endearing wreath Calm peace hath braided round the spoils of war, The reeking blade while ruffians yet unfheathe, Shall Athens o'er dispeopled Gallia dare

Roll, with impetuous wrath, the kindling car, And Scyros * hurl the brand, as once the hurld;

Tho' maiden vests still hide the martial air +; And Tenedos announce her fails unfurl'd-Their trust t, you guardian fleets, that awe, yet bless the world!"

P. 45.

Which is a clear allution to the story of Achilles, as there concealed; though not, perhaps, so strong a picture of the martial disposition of the inhabitants, now suffered gravi torpere veterno, and disguised under the appearance of of

" To Ilion's towers each hero bent his way, But, Will in foft diffulfe, Achilles lay ! Midst bycomedes' lovely train, he sigh'd;
The sleece, for arms, in sweet delirium ply'd;
And stole, amid his labors of the loom,
The virgin languish, and the virgin bloom."

See Bion's Epithal: of Achilles

A Greelan state, the free and independent ally of Britain and Russia, will form a connecting link in the focial bond of commerce; will be fitted by the form a connecting link in the focial bond of commerce; will be fitted by the favourableness of its situation, and the genius of its inhabitants, for bold and successful enterprise; and, in fine, will quickly obtain a proud pre-eminence among the nations."—Eton's Survey, p. 439. The Greeks, since the publication of Mr. Eton's book, have been called upon to unite, in one common rause, with the English, the Russians, and the Turks. And the Greeks, perhaps, will have occasion to rejoice at the termination of the war, on the cossion of their country to Great Britain; when Russia and Turkey shall emulate each other, in manifesting their gratitude to Britons, for rescoing their respective empires from the grass of barbarians. Such an arrangement, if it coincide not with the plans of the politician, would be highly gratifying to the imagic not with the plans of the politician, would be highly gratifying to the imagination of the poct.'

[&]quot; Una omnis Scyria pubes, Succedunt tecto, et flammas ad culmina in Canto En. II. 477

[&]quot; I had, at first, written,

[&]quot; Tho' yet her veil'd Pelides flumber there."

The concluding note contains a very extraordinary anticker pation of the emulous gratitude of Russia and Turkey to Great-Britain, for rescuing their respective empires from the grasp of barbarians. In the author's estimate of barbarism we should not be surprised to see France sunk beneath Russia: but that Turkey can be farther barbarised by an irruption of the French is an opinion which can only arise in an intellect distorted by political fanaticism.

of this vicious stage trick the note respecting Achilles in the hollog The Taylor And And, haply, if her more endearing wrestling.

the notes, which convey fome miscellaneous information.

m force recurrence to the notes, and grantode to the author.

te is blingedly left in the rext,

However, much needlefe able

The recking blade 15% e, 219 1sTel 1 Deque, Shall Athens o'er dispeopled Gallia dane

Calm peace hath braided round the spoils of war,

Strictures upon the Political Parties in the City of Edinburgh; together with a Statement of authenticated Circumstances and Facts, which merit the particular and immediate Attention, both of the honourable Magistrates, and all the Inhabitants of that City. By a Friend to the Public. 8vo. 1s. Ogle. 1800.

THE magistracy of Edinburgh is, according to this writer, di-Ringuished by "its loyalty and attachment to the king and confitution, by its unchangeable attachment and absolute submission to the right honourable fecretary of state, the representative of the city of Edinburgh in parliament, and by a principle of selfishness. Some of the city politics of Edinburgh are laid open, which must be uninteresting to the generality of our readers but, if it is true as this author afferts, that 'the city books of finance are unintelligible, that the cash-book is so conducted as not to be intended to be understood, that immense debts have been contracted without regard to the want of funds for repayment, that the ecclehaftical revenues and the funds appropriated to the poor have been milapplied, and that 1500 pounds have been levied from the city without legal authority,' some measures ought to be taken to rectify such enormous abuses of power; and, on the other hand, if there is no foundation for fuch charges, the character of the magistracy should be vindicated by a plain statement of facts. The work presents itself in such a manner, as if the writer was well acquainted with the polities of Edinburgh; and his statements bear the appearance of authenticity: but on these matters it is not our office to decide; and we can recommend the work to the magistrates only for the general remarks made on their duties, and the improvements suggested for the future management of their town. " Sillor and to another

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Observations on the Produce of the Income Tax, and on its Proportion to the whole Income of Great Britain. A new and corrected Edition, with considerable Additions respecting the Extent, Commerce, Population, Division of Income, and Capital of this Kingdom. By the Rev. H. Beeke, B. D. 8vo. 35. 6d. sewed. Wright. 1800.

Very confiderable additions are made to the work, of which we ave an account, in our XXVIth Vol. N. A. p. 463; but the hafis remains the fame. The author has diminished his commerdal profits by 1,500,000l. below his former statement, in which he ems to us to be right, though many apprehend that the great cause the failure of the income tax arises from the inaccurate returns of those who are engaged in commerce. He retains his opinion of the scale in the income bill, of which he observes, that, by some midvertence or milapprehension, the present progression of the scale hexactly the reverse of what in theory it ought to be.' In reality, harofe from both these causes; from inadvertence in not attending to the effects of an arbitrary scale; from misapprehension of the real nature of taxation, as defined by the persons themselves who mamed the bill. There are many important remarks interwoven on the changes which take place in property, exemplified in the rife of some and the depression of other classes; but whatever pride we may take in the present pre-eminence of this country, its effects will be seen by the next generation. The old race of landholders is gradually disappearing, to make way for a new set of proprietors miled by the moneyed interest, and by the contracts or offices under the present immense national expenditure. The country gentleman possessing from 4001. to 8001. a year, can no longer mainhin his former respectability; and, when almost all classes are engaged in some moneyed speculation to increase an income, we are affind that the affociations in their minds will not be very favourable to religion, morality, literature, or liberty.

Confolatory Thoughts on Taxation or Contribution, in Three Letters to a Member of the House of Commons. By the Author of Thoughts on Taxation, and a New System of Funding 800. No Price or Publisher's Name.

It is very consoling, indeed, that the 'national debt would itself afford a source of supply,' and that, without the 'practice of sunding introduced by king William, we should never have arrived at our present state of prosperity.' The former assertion we do not believe; and we do not doubt, that, if cateris paribus, the permicious system of funding, or that wretched system by which the old merchants of London have been converted into a new generation of mere brokers and money-jobbers, had never been introduced, commerce would be greater, agriculture more flourishing, the farmer, the country-gentleman, the tradesman, would all be in happier circumstances.

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Thoughts on the Letter of Buonaparte, on the Pacific Principles of the luft Speech of Mr. Fon. By a Suffalk Freeholder. 800. 14. Bickerftaff. 1800.

The Suffolk freeholder affects wit, and aims at deligate irony, He fays, for instance, 'it is earnestly to be hoped, but, I am afraid, not much to be expected, that the people of this country, tired at last of a war, which has no other object than the restoration of the Bourbon family, to oppose which we have incurred half of our debt, and to support which the remainder, will recall our Cincinnatus, or rather Linnaus, from his retirement, and invest him with the prerogntive which has been fo long abused."-We shall only add, that thefe "Thoughts' do not indicate the man of fense, the feholar, or the politician. the feet in the income bill, of 'm

Subflance of the Speech of Thomas Jones, Efq. M. P. on his Motion for Peace, made in the House of Commons, May 8, 1800 : with a Copy of the Address moved for by him to his Majefty. 800. s. s. 6d. Debrett.

The motion made in the house of commons on the 8th of May last, for a negotiation with the French republic, and dereliction of the unjust and impracticable purpose of restoring the house of Bourbon, and the ancient government of France,' was supported by ten votes. It was introduced by the speech before us, which, if deficient in style and arrangement, proceeded evidently from a person actuated by principles of conscience, and by the best wishes for the good of his country. Mr. Jones supported the war when it was just and necessary: he now recommends peace, because it appears to him that we are engaged 'in an unjust, an unnecessary, and an impracticable pursuit. He thinks that the ministers are fighting merely for the fake of the Bourbon family; and, if they are not, he defires to know ' for what object on earth the people of England are groaning under an unprecedented and inquisitorial syftern of taxation.' Among the topics discussed in the speech, we were forry to observe it maintained, that we have in fact re-elected the pope, and at this moment the papal banner waves in triumph its proclamation of the re-establishment of the Romish faith to its numerous adherents, scattered over the face of the earth,' The re-election of a pope under protestant auspices would be a greater difgrace to a protestant country than any defeat by sea or land; and whatever may be the fate of the papal power, we hope that authentic documents will hereafter free our mation from any imputation of wishing it success—a wish equally repugnant to the laws of the land and the spirit of Christianity. Annexed to the speech are several extracts from the speeches of the king, and addresses to the throne. Among the latter is one pre-Jented by the commons in 1689, which is a curious contrast to the strange opinions now entertained of the French monarchy. Que

abhorrence of modern French principles does not lead us to a fondness for their old principles; and both may be stigmatised with equal reason as jacobinical; but the horrors of French anarchy make many forget the oruelty and the vices of French monarchy.

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The Publications of the Religious Tract Society. 12mo. 1s. 9d. Boards. Williams. 1800.

With the laudable view of promoting the cause of religion, a fociety was formed, under whose auspices this volume has been published. It contains twenty-feven tracts, which may be had separately; and the first is a very judicious treatise on the advantages refulting from the distribution of fimilar publications. It is, indeed, an easy way of doing good to our neighbours, and one in which almost every person may usefully contribute his mite. The rich. by subscribing to the society itself, or by purchasing the volume, and felecting and distributing the tracts which meet with their approbation, cannot fail of rendering effential service to their poor neighbours. We heartily approve the plan; and if there are fome things which we could wish to see corrected in a few of the tracts, the choice given to serious persons countervails such little defects, and is likely to render the fociety, in the prefent corruption of manners, a beneficial instrument in the hands of Providence for the diffusion of better principles.

The predicted Stability and Permanence of Christianity, illustrated by Historic Testimony. A Sermon, delivered at Salters-Hall, November 3, 1799, to the Supporters of the Sunday-Evening-Lesture at that Place; and published at their Request. By Thomas Morgan. 8vo. 1s. Johnson.

The prediction of our Saviour on the answer of St. Peter to his question respecting the opinions entertained of his character by the people, affords an occasion to the preacher of making several very folid, judicious, and interesting remarks on the history of Christianity, from its origin to the present time. The permanence of the rock on which the true church of Christ is built cannot be doubted by any ferious Christian; and the insidel who indulges in farcastic humour, instead of argument, may here see a full though hort confutation of his infignificant objections to our faith. Many human erections on the rock, whether ornamented with gold and filver, apparently strengthened by massy stones, or covered over with unfeemly thatch and ftraw, will disappear either from the attacks of enemies or the negligence of their supporters; that the true thurch, confilting of good men in every part of this earth, and just men made perfect hereafter; is a fociety against which death and and he exhorts all to change their vices for this sand novembers lied

coming their Christian profession.

The Name, Lord of Hosts,' explained and improved, in a Sermon, preached in the Chapels of Prince's Street, Westminster, on Feebruary 16, and Essex-Street, Strand, on February 23, 1800, by Joshua Toulmin, D. D. Published at earnest Request. 8vo. 141
Johnson.

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Infidel writers have endeavoured to confound Jehovah, Lord of Hofts, in the facred Scriptures, with the furious and infensate god of war of the ancient mythology. This error, it feems, has crept into the fermon of a Christian divine; and Dr. Toulmin has with great propriety restored the original meaning to an epithet by which the great creator of heaven and earth is in the Old Testament defignated. To level the creator of those hofts worshipped by the ancient world with the subordinate god of war, is a degradation which we should have thought would never have escaped the pen of a Christian minister. The propriety of the term is well explained in the work before us; and the proper reason is given why it is to frequent in the Old, and is used only twice in the New Testament. Since Sabæisin has declined, it is less necessary to point out God as the creator with his emblems of power; his character of love and of father endears him the more to the Christian world; and in this character it should be the aim of every preacher, imitating St. John's Epistles, to represent him to his audience.

A Sermon, preached at the Parish Church of St. Mary, in Beverley, on Wednesday, March 12, 1800, being the Day appointed for a General Fast. By the Rev. Robert Rigby, Vicar. 8vo. 6d. Scatcherd.

This 'unworthy minister' was requested by some of his parishioners to print the excellent discourse before us, which he preached on the last fast-day. It is a plain and serious call to every man to rend his heart as well as his garments on fuch a folemnity. Here is no palliation for our own vices, or exaggeration of those of our enemies. The war is confidered as a dreadful evil; and from its continuance, as well as the apprehension of scarcity, it necesfarily follows that our repentance has not been fincere, and that we labour under the guilt of some great national fin. The preacher affirms, and, indeed, without being uncharitable he may fafely affirm it, ' that licentiousness and extravagance, an insatiable love of pleafure, and an impatience of discipline, too strongly mark the character of the times.' But the great evil to which he alludes (and, indeed, notwithstanding the reiterated complaints from the pulpit of the prevalence of infidelity abroad, it may be brought home to this country) is ' the want of a religious principle, a difregard to God and the gospel of Christ.' To this he imputes the levity, profance ness, debauchery, neglect of the sabbath, increase of fanatical preachers, and neglect of family prayer, which are now fo general; and he exhorts all to change these vices for the contrary virtues, becoming their Christian profession.

Christ Crucified, the grand Theme of Paul's Ministry; illustrated in a Sermon, preached at the Baptist Monthly Meeting, August 22, 1799, at Mr. Hutchings' Place of Worship, Unicorn-Yard, Southwark. By James Dore. 8vo. 1s. Gurney.

This is an animated discourse on the peculiar doctrine of the Christian religion, the great manifestation of divine love to mankind through our Saviour's blood shed on the cross—a theme too much neglected not only by those who are termed rational Christians, but by Christians of other denominations. In a discourse so well calculated to make an impression on an audience, we regretted that its attention should be drawn aside to the tenets of a peculiar sect of Christians, and the more so, as the doctrines of the Christians termed 'rational' are misrepresented. We disapprove the use of this term, and the appropriation of it to any sect; but, whatever may be the merits or demerits of that sect, it is too bold an affertion to say that they expunge from their system the atonement by the death of Christ, or that they are assumed of the cross.

A Sermon, preached at St. Magnus, London Bridge, on Eafter-Day, March 24, 1799. By David Gilson, M. A. Gc. Published at the Request of the Parishioners. 8vo. 1s. Darton and Harvey.

This is a discourse wrought up with a considerable mixture of skill and fancy. If we do not find in it that simplicity and energy which impart the truest beauty to style, there is no desiciency of playful imagination, and the thoughts are pleasing, sometimes striking. We give the preacher full credit for his good intentions, and throughout we discover traces of his piety; at the same time we consess that we should have read his sermon with greater pleasure, if there had not appeared to us an affectation of shining, and a glitter of expression. The language which becomes the pulpit needs not such charms, nor can divine truths come more strongly recommended to our attention than when conveyed in the chaste and perspicuous essuments of a heart deeply sensible of their high importance.

CHEMISTRY, MINERALOGY, &c.

The Chemical Pocket-Book, or Memoranda Chemica, arranged in a Compendium of Chemistry, according to the latest Discoveries, with Bergman's Table of Elective Attraction, as improved by Dr. G. Pearson. By James Parkinson. 12mo. 5s. Boards. Symonds.

When we lately observed that a daily expanding science could tarely be completed with accuracy in a summary, we were aware of the exception in the present volume. Mr. Parkinson has collected, very completely, the various chemical sacts, and arranged them in general with great propriety. The only errors of arrangement seem to have arisen from discoveries made in the progress of the work; and observations have been inserted, not in their best

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place, rather than in a miscellaneous collection and addenda. On the whole, this little work merits our highest approbation, as equally accurate, perspicuous, and elegant.

Journals of the Royal Institution of Great Britain. Number I.

April 5, 1800. 6d. Cadell and Davies.

This first number of the Journal contains an enumeration of the objects of the society, and the proposals for the suture publications. The chief object is the diffusion of chemical and philosophical knowledge, with its application to the most useful purposes. We sincerely wish well to this judicious and patriotic attempt, and of the society we may say, with a sincerity of zeal, Esto perpetua.

Elements of the Natural History and Chymical Analysis of Mineral Substances, for the Use of the Central Schools. Translated from the French of Mathurin James Brisson, Member of the National Institute, Sc. 8vo. 4s. Boards. Walker. 1800.

These Elements contain the outline of the science of natural history, in clear comprehensive language. But some recent discoveries, particularly that of the chrome, which influences the analysis and the appearance of many of the precious stones, are not introduced. This work does not preclude the use of the Mineralogical Dictionary which we lately recommended.

A New System of Mineralogy, in the Form of a Catalogue, after the Manner of Baron Born's Systematic Catalogue of the Collection of Fossils of M. Eléonore de Raab. By William Babington, M.D. Sc. 4to. Phillips.

Dr. Babington published, about five years ago, a Systematic Arrangement of Minerals in the form of tables, which we noticed in our XVIIth Vol. N. A. p.117. We there transcribed his advertisement, which contains the motives and object of the work. This advertisement is nearly copied in the present continuation of the same defign. The former publication confifted of the science of mineralogy in the form of tables. The present work contains the definitions and analyses more fully, and is an absolutely essential addition to the Systematic Arrangement; for, as in that work more fatisfactory accounts were often necessary, so in this we greatly want the comprehensive view which tables only can afford. In examining the fystem before us with some care, we find much (we "ometimes thought too much) attention paid to external forms; but we ought not to forget, that the combination of external characters with analyses can alone render a mineralogical system complete, and that we have always recommended this union. On the whole, this new fystem is well executed. The few novelties which difcovery has supplied may well be added in a short appendix, as we observe no omissions in what was before known. In another Object things began less interest, not in their Dell

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edition the tables may be combined with the present work, and the novelvies since added to the stock properly interspersed. Even in this form our author's system will, in a great degree, supply the want of a mineralogical dictionary, as the index is correct and full.

Light. By Alexander Anstruther, Esq. of Madras, Barrister at Law. 800. 25. Murray and Highley.

Mr. Anstruther endeavours to show, that caloric is the same with electricity, and that both are light, or that light is a modification of these principles. As this essay was written during a voyage, the position could not be supported by numerous facts of his own, or of other authors; but, as fome of his opinions are new, more pains hould have been taken in fecuring the foundation. It is by no means clear, for instance, that when bodies assume gaseous forms, in consequence of their acquiring caloric, the heat is only entangled in the interstices, and not chemically combined. It cannot be proved or in the present state of science rendered probable, that the union of politive and negative (vitreous and refinous) electricities will produce heat, and their separation, cold; or, in reality, that these fluids are diffinct. That light is not heat we have now great reason to believe; but electricity has been supposed to be a form of light with some plausibility. Electricity is not however any form of heat, and is usually separated, instead of being absorbed, when bodies assume the form of air. All these facts strongly militate against Mr. Anfruther's fystem, which, however, is explained with perspicuity and Supported very ingeniously, though not satisfactorily.

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EDUCATION.

Elèmens de la Grammaire Anglaise; ou Methode pratique, pour apprendre facilement cette Langue. Par M. Siret. Nouvelle Edition, &c.

A New Edition, by Parquet, of Siret's Elements of English Grammar. 12mo. 2s. bound. Vernor and Hood.

The improvements made in this grammar by the editor chiefly confift of well-chosen themes; and the work is thus rendered more useful to the learners of our language.

Sequel to the English Reader: or, Elegant Selections in Profe and Poetry. Designed to improve the highest Class of Learners in Reading; to establish a Taste for just and accurate Composition; and to promote the Interests of Piety and Virtue. By Lindley Murray. 12mo. 3s. 6d. bound. Longman and Rees. 1800.

The favourable reception given by the public to the English Reader (secour XXVIth Vol. N. A. p. 346) induced Mr. Murray to compile the present sequel. The pieces which he has selected are thus classed—narrative, didactic, argumentative, descriptive, and pathetic

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pieces—dialogues, public speeches, promiscuous and mixed pieces. The last head is strangely tautologous: if the articles are promiscuous.

they are certainly mixed.

The authors who have furnished the selections are Addison, Dr. Johnson, Hume, lord Lyttelton, Blair, Beattie, &c. The poets are Gay, Parnell, Young, Gray, Goldsmith, and others. The pieces in general are well chosen.

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The Life of Major J. G. Semple Liste; containing a faithful Narrative of his alternate Vicissitudes of Splendor and Missortune. Written by Himself. The whole interspersed with interesting Ancedotes, and authentic Accounts of important Public Transactions, 800, 6s. Boards. Stewart.

Some exploits performed by major Semple in this country, and which savoured more of enterprise than of respect for meum and tunm, have rendered the character of that gentleman fufficiently no torious to attract a degree of curiofity to these memoirs. By his own account he has passed through many extraordinary scenes, in various parts of the world, and has enjoyed the friendship and confidence of feveral of the most celebrated military characters of Europe. This we have no inclination to doubt- filent leges inter arma; we believe that the major may have merited esteem as a valiant soldier; but, it being known that the expense of his travels was for the most part defrayed by the British government, many of our readers might be fo fastidious as to suspect the accuracy of a great part of the materials of the present volume; we shall not therefore venture to make any extracts from the traveling part of the work, but merely observe that, in reading it, the lovers of the marvelous will probably find abundant gratification.

The major (a pitiable circumstance for a man of such active talents) is now confined in Tothill-fields Bridewell; whether, like Cæsar, he wrote this account of his own campaigns, or whether some ingenious sellow-prisoner, or man of letters, perhaps not more comfortably lodged, arranged and embellished the materials of these memoirs, we cannot tell: but it is probable that they have received the polish of a professional hand. Though we have not introduced any part of the major's story, it is our duty as critics not to neglect the moral, which indeed exhibits some sea-

tures both novel and curious.

history, such as it has really been; and the reader has, I hope, seen, amidst all my errors, something that may be commended, much that may be pardoned, and still more that must be pitied. That I meant to vindicate every part of my conduct could not be supposed; but, alas! man is the creature of circumstances, and let him not presume to expect that no pressure is heavy enough to drive him

wa wrong action. Violent passions, the almost inseparable compapions of a vigorous conflitution, call upon youth, with an imporunity nearly unceasing; experience, the surest guide, is inevitably wanting; example invites, splendor displays its allurements, fashion leads the way, and ruin too often follows. Gay, honest, unsuspecting, and generous, the young man ruthes on to pleafure, and, confidering interest as trash, is apt to weigh the property of others as lightly as he does his own; amusements incur expence, and expence degenerates into prodigality. To supply those pleasures now become almost necessary to his existence; he contracts debts, which he cannot pay; be thifts from his creditors; his gay companions forthe him, as an incumbrance on their joyous moments; poverty flares him in the face, and actions, at which his foul recoils, become the only possible means of subfisting. If an accidental supply falls in his way, his relish for pleasure returns; he embraces it with an appetite sharpened by abstinence; he is again involved, and difgrace succeeds to ruin.

Once disgraced, those prudent friends, whom the law alone refining from open plunder, abandon him; they do worse, they shut
the door of society against him by their calumnies; his saults are
the theme of their conversation, and they shelter their own want of
honesty behind his loss of same; they hunt him down with untrassing clamour, till it needs more than common discernment and
common sirmness even to dare to befriend him; his timid wellwishers will not venture to give their countenance to him; and he

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Did it always happen that men of warm passions, hurried away by pleasures, were villains; or did it always happen that the cold, the solemn, the phlegmatic, were honest; some excuse might be sound for such persecutions. But as it happens on the contrary, that the man who is without vices is also, for the most part, without virtues, and that frudence is very often nothing better than low selfishness in disquise, little can be said for such gratuitous severity; besides, if one good action is not sufficient to constitute the man of worth, why should one bad one be allowed to constitute the villain? A senious turn, the effect of experience, may reclaim the libertine, his unruly passions may subside, and he may, if the gate of society be left open to him, some time or other, re-enter it; but, if hunted into villainy, by the clamours of hypocrify, the die is cast, and his perdition is inevitable.

Too often do talents and accomplishments prove the ruin of the owner; he is beset by the envy of little minds, they endeavour to reduce him to their own level, by drawing him into debauches; they flatter him while in his presence, but no sooner is he gone than they revile him: if his intimacy with them can give probability to their tales, they sabricate calumnies which pass for truths; if he makes one false step, he falls unpitied, and they are the first to

trample upon him.

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It is a trite observation, that men of talent are generally poor, and seldom rise to any high preferment; it is true; for if they depend solely on their merit, no sooner does that begin to display itself, than it is invested on all sides by an army of blockheads, who, having no merit of their own, cannot bear it in others. But where a youth sets out with high spirits, conspicuous talents, indulgent friends, and a small fortune, his ruin is next to inevitable, life is to him a perpetual ambuscade, with a thousand masked batteries ready to play upon him at every turn; his vanity is flattered, his sense amused, his companions press him to become the partaker of their pleasures, his enemies endeavour to entice him to destruction; he yields himself up to gaiety and expence, till at length he falls, and dunces rise on his ruin. P. 366.

A part of these effusions of sentiment would doubtless be selt and admired by the philosophers of Botany Bay; but the parent country has perhaps too many prejudices to adopt the free morals of its new colony.

An Inquiry into the Life, Writings, and Character, of the Rev. Dr. William Guild, one of the Chaplains in Ordinary to His Majefy King Charles I. and Founder of the Trinity Hospital, Abendeen. With some Strictures upon Spalding's Account of him, and of the Times in which he lived. By James Shirrefs, D. D. Gc. 8v. 2s. 6d. Boards. Rivingtons. 1799.

Dr. Guild, a respectable divine of the seventeenth century, principal of king's college, Aberdeen, made at his death some valuable bequests to that city, entitling him to that degree of notice in his fative place which his talents and writings are not likely to procure him in the pages of general biography. The quaint titles of his works in divinity discover the taste of the times, and the writer's general pursuits; and the works themselves have fallen into oblivion. In the troubles which agitated the reign of Charles I. he had his mate of affliction, and was deprived of his collegiate office: but the incidents in his life scarcely furnish matter for so short a publication as the work before us; and when we observe with pleasure that his memory is rescued from the infinuations of Spalding, we must add that few of our readers will find any interest in the contest. The publisher of these memoirs, however, is to be commended for the talk he has undertaken; and the natives of Aberdeen will feel an interest in the work.

The Life of George Washington, late President and Commander in Chief of the Armies of the United States of America; interspersed with Biographical Anecdotes of the most eminent Men who effected the American Revolution. Dedicated (by Permission) to the Right Hon. the Lord Mayor. By John Corry. 8vo. 3s. 6d. Kearsley. 1800.

To describe the character and write the history of George

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Washington, require talents scarcely inferior to those of the great man who planned and executed the American revolution, and who, regardless of the common objects of ambition, was happy in purfuing the general good, and thought the exercise of power defirable only as it contributed to the welfare of others. It requires time to collect materials relative to this important character. The events of the American war have been detailed to fatiety; they are open to every one's researches: but the fame of the general is lost in the virtues of the citizen, and all are anxious to learn in what manner the hero of this work distinguished himself as a legislator, as president of a great state, and in the bosom of domestic retirement. This account fails in giving our fatisfaction respecting the early years of Washington. Three quarters of the work are employed From his refignation of the command of in the detail of the war. the army in the year 1783; a few pages inform us that he refumed his agricultural pursuits at Mount Vernon in Virginia, that he was chosen president of the states in 1789, that he resigned that office in 1796, and died in 1799. Thus the ten most important and most glorious parts of his mortal career are paffed over with little or no notice of the prudence of his conduct in to troublesome a period, and of the wisdom of his general administration. We would recommend a flight change in the title-page of the work; let it be 'A fhort account of the American revolution, interspersed with biographical anecdotes of general Washington, and others who took part in that event;' and the purchasers of the volume will not then be liable to be deceived in their expectations, as voy bus plinal ollog A

We hould lead the You's To Grow were we to declare or to

Poetical Attempts. By Mrs. Hale. 8vo. No Publisher's Name.

The authoress of this volume informs us, in a dedication addressed to 'all who know her, and all who know her not,' that the ardent wish of extricating an amiable and worthy family from their present difficulties prompted its publication. As friends to humanity, we most fincerely wish her success; and we are happy to find, by the inspection of her list of subscribers, that she has secured the patronage of a considerable number of illustrious characters.

Reviewers may frequently be considered as exercising the functions of accusateurs publiques. Mrs. Hale seems to view them in that light; and, in an address to the critics, she thus arranges her desence:

These trisles (since I'm at confession,
And must reveal each past transgression)—
These are, to own the honest truth,
The tell-tale bantlings of my youth;
Offspring of many a thoughtless year,
When, free from forrow, free from care,

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od w b Happy as gay, and gay as young; a but the off older men When gathering many a gaudy flower, elderde From Fancy's variegated bower, is should be seen and pales of smil I wove these wreaths, which, fresh and fair, too it and too 2143v3 On youth's luxuriant auburn hair, william air and fine of mage Suit not, your fuppliant confesses, and any manner of the ad al Sober age's filver treffestal and and a saf a star e'ano ways Tenner Yet if these pleas will not excuse me, making and to another And you determine to abuse me; .Ingmes If fill inexorably harden'd, no bus part to age a lo make You don't at once pronounce me pardon'd; For last, and best, defence of all, a defence of all, Here I'm indeed a hoft, not fearing Reviewer's frown, or critic's fneering; and authorises and ni a all Here I defy the proudeft her seem and to an able of a stade ... from be To laugh at my simplicity : The look in the dare -ou on For fure, to aid embarrafs'd worth, some aid to attend another From forrow's shade draw goodness forth, To ease fond parents' anxious fears, To guard their children's tender years, labings Virtue herfelf will plead my cause - sand after many Will crown me with good men's applaufe: of old Each muse propitious grant her love, long and bins some Apollo smile, and you approve. P. 155.

We should lead the public into error, were we to declare or to imply that all the attempts are answerable to this sample. Many of Mrs. Hale's pieces are indeed trifles which may have passed current with the civility of politeness or the fondness of affection, but which are by no means sufficiently interesting or sufficiently polished to meet the public eye.

Sir Hubert, an Heroic Ballad. By John Westbrooke Chandler. 800.

To judge,' fays lord Shaftesbury, of the circumstances of a modern author by the pattern of his prefaces, dedications, and introductions, one would think that, at the moment when a piece of his was in hand, some conjuration was forming against him, some diabolical powers drawing together to blast his work and cross his generous design. He therefore rouses his indignation, hardens his forehead, and with many furious desiances and avant-Satans, enters on his business.'

Of this observation we were strongly reminded by the conclusion of Mr. Chandler's preface. 'To the illiberal who assume the name of critic I have nothing to advance. There are some persons in the world whose approbation would be reproof; there are others also whose censure would be praise,'

If our approbation would be reproof to Mr. Chandler, of such reproof he has no occasion to entertain any dread. We have perused his ballad, and have thought it tedious and uninteresting. If the partial friends at whose suggestion he submitted it to the public inspection had advised him to keep his piece nine years, to prune its superfluities, and to correct its inaccuracies, they would have acted a friendly part: for his poem possesses, they would have is formed with as much skill as the simplicity of its materials would allow; and, amid many puerilities which mature judgement would have retrenched, some original beauties shine. The following passage displays the membra poets.

'Whether it were despair indeed,
Or, that my dizzy brain
Yet trembled from the fatal blow
Which fell'd me to the plain,

* I know not; but my foul fure felt

Each change of maniac woe;

Yet not at times devoid of blifs

Would my wild fancies flow,

Since thou wert prefent to my thoughts:

Oft, by the wizard's pow'r,

Thou wav'dst within a graceful pine,

Or breath'dst from some fair flow'r;

Oft wou'd I guard the rose that shook
Its perfumes to the wind,
And swear my sweeter Ethelind
Its silken buds enshrin'd;

Then I wou'd drink its filv'ry dews,

(Thy tears) and to my breast

With tender care, thy fragrant mouth,

Thy leafy lips were prest.

As one from marble hewn;
Pale, cold, regardless, woe-begone,
And poring on the moon—

(Perhaps, I thought, my love e'en now Leans penfive from her tow'r, Complaining to that virgin orb Of fortune's fickle pow'r—)

I feek the deepest shade,
And melancholy, cypress boughs
About my temples braid;

with tender grief o'ercome soon and an among

Il .gather all the fweetelt flow'rs, vall bas ballad and ball

To featter round thy tomb. P. 141.

It is hardly credible that the author of the foregoing pathetic description could condescend to the following conceit.

bluow states Half o'er her ivory shoulders hung a sa daw balant at

Her bosom to the view and available and available

Between there lay a sparkling cross

Beaming with ruby fires—

Burning in snow—it heav'd—it breath'd—

And blush'd-with soft desires!' v.18.

In p. 74 we find the heroine in the following interesting fituation,

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Now Eth find thro thy trembling nerves
Tumultuous horrors roll!
On either fide now this, now that
Prefents the freel or bowl

He frikes—he firlkes—the shining steel
In thy life's blood is warm.

Now, gentle reader! does not thy blood curdle with horror at the recital of this barbarous deed? Come! cheer up thy spirits—not to keep thee in the agony of suspense, we inform thee, that the steel of the friar is a lancet, the bowl presented by the old hag is, in plain English, a basin, and the murder evaporates in the operation of phlebotomy, which is performed on the fainting Ethelind.

In the last line of the following stanza we have a notable in-

stance of the art of finking in poetry.

What means this filent gloom?
What walls are these? Does Raymond live?
The friar left the room.'— P. 78.

The enfuing lines contain a plain truth very plainly told.

Yields to no temp'rate gust;

Love holds the rudder of the soul,

And where we must, we must! P. 83.

The meledy of the subsequent stanzas is in some degree ori-

Grief hung a trembling tear;
With scorn represt—the conscious forrow
Stood suspended there. P. 85.

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But, if thou wilt not—Tyrant cease!

(She said abrupt) sooner

The spiny thorn, or thistle shall

The purple cluster bear.' P. 86.

These and various other passages in this heroic ballad evince the truth of the author's affertion that 'The muses sometimes nod.'

Britannia's Tears, a Vision. By A. Peterkin. | 410. 15. Hurst.

Amid, what he classically denominates, the tenebrious gloom of a night of blustrous November, Mr. Peterkin falls asleep; and, lo! he beholds in vision his native land enjoying all the blessings of internal peace and rural felicity. He breathes a prayer for the long continuance of these blessings. Scarcely has he spoken, when a band of domestic enemies rise and spread devastation, rape, and murder, far and wide.

Down dark Vesuvius' side terrissic rolls,

What time, preceded by eruption dire,

Conssicting elements evulse his bowels;

The glowing torrent, having reached the plain,
Expands, and wherefoe'er it's boiling wave
Approaches, death and devastation reigns,
Inhuming Nature in a pitchy grave.

'So, for a while, where these predators spread,
Horror and desolation mark'd their course;
Till from their stupor rous'd, contemning dread,
The swains resolv'd to combat force with sorce.' P. 5.

The loyal swains gain the victory over the rebels, some of whom slee to France, others are hanged, some sneak home, and others are sent to Botany Bay. The scene now changes to the sea-shore, where Britannia is sitting on a rock, embathed in tears, sighing for the return of peace, and indignant at the desertion of her allies. She declares that

Perfidious undermin'd, what might have brav'd,

(Had all the coalesc'd powers been sincere)

The en'mies vengeance, and their country sav'd. P. 10.

Britannia now complains of the stupidity of the Dutch, that illepid race who fought against their deliverers, and weeps over the

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woes of a fusceptive maid, who is waiting for the return of her love whose corse lies supine on Alkmaar's strand. She then digresses to the duke of York, whom she praises for preserving convention to battle, and for preserving his thousands to fight another day.

Let temerarious chiefs impetuous fight,
Till with life's effence they have drench'd their plains;
Heroic valor never fhines more bright,
Than when from wanton carnage it refrains. P. 11.

Having vented her emotions, Britannia is much relieved.

The goddels ceas'd and wip'd her humid eyes,

Then smiling graciously upon her train,

Said, this I ow'd the fliades who climb you flies;

The debt discharg'd, I am myself again.

Since commerce to my shores directs her fleets;

Since vigilance, ey'n embryo treason quells,

And wealth and grandeur grace my splendid streets.' P. 12.

Loyalty, like charity, covers a multitude of fins. May this comfortable cloak conceal the poetical peccancy of Mr. Peterkin, and may his poem have a wide circulation among the staunch supporters of all the measures of his majesty's present ministers. As to the opposition wits, we are afraid that their prejudices may render them sastidious, and that they may laugh at permissive freams—sounds 'with which Æólus melts the raptured soul'—and sovereigns who 'acted in concert', and then put on a temporising smile in order 'to evade severe imposts.'

DRAMA.

The Peevish Man: a Drama, in Four Acts. By Augustus Kotzebue.

Being his last Production. Translated by C. Ludger, Esq. 8vo.

2s. Hookham.

Ecce iterum Crifpinus! and our old friends Mr. Shandy and Uncle Toby, metamorphosed into Germans! One of our writers once dramatised Werter; and the Germans have now retaliated. This is a kind of literary high treason and sacrilege deserving severe censure. Heavy was the punishment, and just, of the seeble who attempted to shoot in the bow of Ulysses.

There is, however, fomething to commend in this play. Its tendency is unexceptionable (an uncommon merit in Kotzebuc); and the Peevish Man, where we lose fight of Mr. Shandy, is well drawn. In the following scene his fister, irritated by the insults of

fretfulnefs, is on the point of leaving him.

Herman. (With an oppressed heart.) Sister, I am told you will leave me?

Ulrico. (The Same.) Yes, brother ! we inquel of we want high

· Her. I hope you do not mean to imitate ambaffadors of foreign powers, who, when their courts have decreed iron war, let

off without faying farewell?

· Ul. God forbid! Many a happy hour have I spent here. Ah! fondly did I hope to figh away my latest breath under the same roof that shelters my dear Herman—and let it glide away as ferene and calm as its eldest fifters did; (fighs;) but it must not be!

Her. (Gently.) Why not?

"Ul. Whatever it be that fills my heart with respect for you, brother !- it is not rancour, it is grief-that which has past between us will never cancel the fense of my obligations.

Her. Good God! what has happened then?

" Ul. You have used me very ill.

Her. But, fifter, you know my way-

" Ul. I know you mean no harm; and I have always borne every thing with patience and affection.

4 Her. Only to day-

" Ul. What between two persons will prick slight as a needle, will make deep wounds in the presence of a third. To-day you have, in the presence of a stranger, grievously offended your listeryour poor fifter, your fifter that lives on your bounty.

Her. Bounty-filly expression.

" Ul. Yes; I am not assamed to own it. You have, since the death of our mother, acted the part of a father to me.

Her. And sometimes grumbled like a father too.

" Ul. Without you I had been compelled to feek in a convent, among strangers, for what, here, fraternal love has lavished upon me. But, Herman ! a benefactor voluntarily loads heavy obligations upon himself! What he gives is the least, but the manner in which he bestows, constitutes the value of his boon.

4 Her. Preach away, good old foul, preach away!

Ul. I have always preferred filence; fuffer me now to speak my mind: I think, king Saul mult have been somewhat like you, when David played the harp to him. But, unfortunately for us. we here have neither Davids nor harps to footh your mind.

" Her. She is right.

- may pread as own can "Ul. I leave you. Don't treat with contempt the admonitions When you have faithful fervants, use them well. Do not grumble about every trifle. Do not expect your fervants to be perfect, while there is no master that can boast of perfection. Look. only to cleanliness and good-will; be content with that.—I entreat you, brother Herman, remember my words, that—it breaks my heart to tell you fo-that you may not be deferted at the hour of death!
 - Her. And will my only fifter leave me at that hour!

" Ul. No, brother; I'll come at your call.

Her. But now?

Ul. I now go-because I am forced.

Her. Who forces you?

Ul. Oh! my heart, that is rent. Her. And will you go, if even, in the presence of the whole house, I confess that I have behaved like a fool to you?

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Ul. I still will go.

Her. And that I will never act fo again?

"Ul. I still must go. Forgive me, brother; you have so often repeated that promise to me, it seems, alas! as if you could not perform it.

Her. I have indeed no other voucher than my heart.

Ul. Your voucher is an honest one, but groans under the weight of your humour.

Her. But, good heavens! where will you go to?

" Ul. To town, to my foster-daughter. She and her future husband have vowed, with tears in their eyes, that they would honour me as their mother. 'See now, what an advantage there is in fecuring good fouls by the ties of love, which are much stronger than those of consanguinity.

· Her. (With grief.) You will leave your brother-

· Ul. I'll go to my daughter.

· Her. To a stranger, whom you don't know-

Ul. I have educated a worthy wife for him; he will prove grateful.

Her. And if you should be deceived?

" Ul. Then I'll go to my convent, and there await my end." believe the first and believe the service of the

True Patriotism; or, Poverty ennobled by Virtue, a Drama; performed, for the first Time, December 21st, 1798, at the Theatre in Louth, with univerfal Applause. 8ve. 2s. Crosby and Letterwhich he bettows, constitut man. 1799.

A drama upon the late Irish rebellion by an Irish loyalist .- The author's knowledge of human nature appears in his delineation of his United Irishmen, who deteribe themselves as acting not upon mistaken principles, but upon such as are avowedly bad. His poetry may plead its own cause.

Lucy. O most unhappy! Thou prowling democrat! (no name the worfe) What dost thou here? But, O my foul, too well Yet, Oh! let mercy, Thou know'ft his dire resolve. (Supplicating him)

If e'er thou hop'st to meet with mercy, make Thy deadly purpose void. Stain not thy mind With deeds too black to ever be eras'd. Endless perdition waits the murky foul That blasts the bud of innocence by wiles; Then, think what fi'ry gulphs ope their red mouths

To swallow up the thrice-black ravisher.

Let this, unfeeling! warn thee to forbear,

If pity cannot move.

Libel. You talk this well : minion to slague all to !

Mere empty found of words; for know I not,

Jove smiles at lovers' tricks; and fraud or force

Alike will be forgiv'n?

· Lucy. O dark impiety by mer ei vulenom adt bate ; bafana

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Magnet Cilly Sil

Well may th'Almighty's anger shake that country,
Degen'rating to heathenism, where live
The men who harbour principles like these.

' Libel. Rate on, my sweet-one. I'm come to aid you .

In railing at bad men, my dearest Lucy:
Also, to claim you for my proper self,
In lieu of Lionel; who, you must know,
With his most loyal father, (right reward)
Lies bury'd in the common dust at Clonmere.

Lucy. Then all my fears are true. What! Can it be
That thou the village' greatest pride art gone;
Nor left thy like behind?' P. 50.

ali so moinuses N. O V E L S, &c.

The Picture of the Age; a Novel. 2 Vols. 12mo. 7s. Boards.

In this picture the figures are not numerous or striking. Fanny marries one man, and loves another: her husband discovers her love for Henry, promotes a criminal intercourse between her and her favourite, and obtains a divorce; after which the lady gives her hand to Henry. Her friend Eliza espouses an old man, and, after his death, becomes the wife of his nephew. This novel was written with a view of recommending a facility of complete divorce, and a disregard even to very near affinity, in forming matrimonial connexions.

Though this work is brought forward as an original, we have no doubt, from a great number of passages, that it is a translation from the French. We shall only add, that we are disgusted with the immoral tendency of the piece, and do not approve the composition.

Frederic Latimer; or, the History of a Young Man of Fashion. 3 Vols. Small 8vo. 10s. 6d. Boards. Cadell and Davies.

The hero of this novel is a lively spirited young man, with a good heart and an amiable disposition. In the earlier part of his career, he is credulous, weak, and unsuspicious; but he acquires caution and wisdom in the sequel. The follies and absurdities of fashion are well satirised by the author; and the work, which is said to be his first attempt, deserves sufficient encouragement from the public to induce him to renew his exertions.

Constantia Neville; or, the West Indian. A Novel. By Helena Wells. 3 Vols. 12mo. 15s. sewed. Cadell and Davies. 1800.

For the purpose of pointing out the ways of Providence to man, and of propagating virtue by example, the authore's of the Step-Mother composed this work. The incidents are sufficiently numerous; probability is rarely violated; the plot is not ill conducted; and the morality is unexceptionable. Constantia is a well-drawn character, full of dignity, fortitude, prudence, and virtue; but vanity is sometimes too apparent in her ideas of her own merit. The style is easy and perspicuous, but frequently inaccurate, though the errors are not so disgraceful as those which deform the greater part of our modern novels. Upon the whole, the work may be read both with pleasure and prosit.

Exhibitions of the Heart; a Novel. Dedicated (by Permission) to the Queen. By Miss Hutchinson. 4 Vols. 12mo. 16s. sewed. Kearsley.

The title of this novel sufficiently indicates its purpose; and, from an attention to the latter, we ought to determine with regard to the invention and judgement displayed in the execution of the defign. The hiftory is properly not that of any particular person, but contains, epifodically, the affemblage of a confiderable number. The characters, both male and female, are delineated in lively colours, and supported with confistency; while each is introduced in an eafy and natural manner, they have likewife among them, in general, fuch a degree of connection as blends, at the same time that it differiminates, their different fituations in the progress of the narrative. Many of the incidents, and much of the fentiments, present the reader with a forcible appeal to the heart, which is often increased by auxiliary resources drawn from religion and morality. In a few parts we discover a little affectation in point of style, but not fuch as to detract from the general merit of the composition, A variety of scenes are well described, and abrupt occurrences are judiciously managed, for promoting the completion of the different objects in view. On the whole, these volumes deserve to be regarded as interesting; and Miss Hutchinson seems, on some occafions, to have intermixed her narrative with adventitious incidents from real life; at least the has given them in different places an air of reality.

Augusta; a Novel, from the French, by a Lady. 3 Vols. 12mo.

Some of the letters which compose this novel are amusing; others are sentimentally dull. The original we before noticed (Vol. XXIII. New Arr. p. 547): of the translation we can only say, that it claims little praise.

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MISCELLANEOUS LIST.

The Royal Tribes of Wales. By Philip Yorke, Esq. of Erthig. 4to.

The chief merit of this work confifts in portraits of eminent per-

fons of Wales, well engraven by Mr. Bond.

The anecdotes interspersed are rather amusing than important; and the greater part of the letter-press is occupied with discussions concerning Welch genealogies, only interesting to the families connected with them. We are surprised at the remaining sondness of the Welch, in general a sensible and spirited people, for such reliques of ancient barbarism—descents which, if proved, could restect no genuine glory; but which, uncertain as they are, only betray the credulity of ignorance. Mr. Yorke manifests little antiquarian knowledge; and his references to ancient authors are generally vague and erroneous.

The following note will give the reader an idea of the Royal

Tribes of Wales.

The five regal tribes, and the respective representative of each, were confidered as of regal blood. The fifteen common tribes, all of North Wales, and the respective representative of each, formed the nobility; were lords of distinct districts, and bore some hereditary office in the palace. Gruffudd ab Cynan, prince of North Wales, Rhys ab Tewdwr, of South Wales, and Bleddyn ab Cynfyn, of Powys, regulated both these classes, but they did not create them; as many of the persons, placed at their head, lived before their times, and some after. Their precedence, as it stands, is very uncertain, and not governed by the dates; the last of them were created by Dafydd ab Owain Gwynedd, who began his reign in 1169. are left ignorant of the form by which they were called to this rank. Mr. Vaughan of Hengwrt informs us " that Gruffudd ab Cynan, Rhys ab Tewdwr, and Bleddyn ab Cynfyn, made diligent fearch after the arms, enfigns, and pedigrees of their ancestors, the nobility and kings of the Britons. What they discovered by their pains in any papers and records was afterwards by the bards digefted and put into books, and they ordained five royal tribes, there being only three before, from whom their posterity to this day, can derive themfelves, and also fifteen special tribes, of whom the gentry of North Wales are for the most part descended." P. J.

One of the most interesting portraits is that of Humphrey Llwyd, the celebrated antiquary; and we shall extract Mr. Yorke's account of that learned man as a specimen.

The Lloyds of Afton descended from Einion. The heiress of the house, Elizabeth, daughter of Thomas Lloyd, married Foulke Lloyd of Foxhall, or the hall of Foulke, and was great grandmother to the Rev. John Robert Lloyd, rector of Whittington and Syllatyn,

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both in his advowson, the present possessor of Aston. The name. of the Foxhall family was Rofindale, when they came first from the north. To a younger branch, fettled at Denbigh, we owe our learned countryman, Humphrey Llwyd. He was of Brazen-nofe, Oxford, studied physic, and lived as family physician in the house of the last earl of Arundel of the name of Fitzalan, the chancellor of that university. He sat in parliament for his native town of Denbigh, and died there in the forty-first year of his age, and was buried in the parish church with a coarse monument, a dry epitaph, and a pfalm tune under it. He made the map of England for his friend, Ortelius, to whom he dedicates his Commentariolum Britanniæ, and his Epistle De Mona Druidum Insula, antiquitati sua restitutà. He lest a Chronicon Walliæ a rege Cadwaladero, and the History of Cambria, now called Wales, in MS. He printed a Latin paper De Armamentario Romano, and turned fome medical treatifes from Latin into English. He collected many curious books for lord Lumley, (whose fifter he married) which form at this time a valuable part of the library in the British museum. One of his fons was fettled at Cheam in Surry, whose great grandson, Robert Lloyd, was rector of St. Paul's, Covent Garden, and contended, but without effect, for the barony of Lumley.' P. 117.

Lord Lumley's books, which sometimes occur in sets marked H. L. with a coronet above, did not all pass into the British museum. They were, it is believed, a divided inheritance, of which a part sell into different hands.

An Arrangement of Provincial Coins, Tokens, and Medalets, issued in Great Britain, Ireland, and the Colonies, within the last Twenty Years. By James Conder. 8vo. 7s. 6d. Boards. Cadell and Davies. 1799.

This little work is well arranged, neatly printed, and embellished with copper-plates.

The arrangement of the counties in Great Britain, with the towns in each feparately, has been adopted, as combining usefulness with clearness of method. Ireland, and the different colonies, are separated from Great Britain; and in another chapter are classed alphabetically, such medalets, &c. as have no particular reference nor allusion to any specific county, city, or town, by which posterity can be supposed to trace where the proprietor resided; and herein, under the general term British, are comprised the different pattern pieces for national coinage, as well as others that have a particular reference to Great Britain. In some other medalets contained in this chapter, the most important circumstance, as constituting its designation for arrangement is adopted, such as portraits of the pieces of Howard, Newton, and others: the idea of industry is chiefly conveyed by the halfpenny bearing a bee-hive, "Industry has its sure

reward," &c. A vast number of varieties having been created by several dealers conjointly, from dies sabricated on purpose to impose upon collectors, one of each of the original pieces is retained in the general arrangement, and the remaining intermixture are placed in alphabetical order at the end of the work, merely to certify their existence.

'I have in my possession sifty-five different American pieces, some minted there, and others in Great Britain; several of which, circulated in this country, were improperly included in the lists that have been published, as the medalet of "Washington, United States, New York Tokens;" but such are wholly omitted in this arrangement. They may be collected as American pieces, but can never be regarded as British.

Having received a few coins whilst the work was printing, too late for insertion in their proper places, a small appendix has been found necessary, in which particular reference is made to where they should be placed, that the arrangement in the cabinet may not be injured by it; it is likewise necessary to mention, that the difference of the metals is specified only where it is not copper.

With the affistance I have received, and the care bestowed to render it complete, I hope this work will be found the most perfect

of its kind which has hitherto appeared.' P. 2.

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The preface, by the late ingenious James Wright, esq. of Dundee, evinces the zeal of that gentleman for medallic science.

Narrative of the Shipwreck of the Juno, on the Coast of Aracan, and of the singular Preservation of Fourteen of her Company on the Wreck, without Food, during a Period of Twenty-three Days. In a Letter to his Father, the Rev. Thomas Mackay, Minister of Lairg, Sutherlandshire—By William Mackay, late second Officer of the Ship. 8vo. 2s. 6d. Debrett.

Narratives of this kind powerfully affect the imagination, and interest the feelings perhaps beyond all other pictured scenes. The present narrative is given with uncommon simplicity and honesty, without any affectation of the hero or the braggart. It is addressed to a father with whose sensibility every reader who has a heart will feel it in unison. The following passage is particularly affecting.

Of those who were not immediately near me I knew little, unless by their cries. Some struggled hard, and died in great agony; but it was not always those whose strength was most impaired that died the easiest, though in some cases it might have been so. I particularly remember the following instances: Mr. Wade's servant, a stout and healthy boy, died early, and almost without a groan; while another of the same age, but of a less promising appearance, held out much longer. The sate of these unfortunate boys differed also in another respect, highly deserving of notice. Their sathers were both in the fore-top when the lads were taken ill. The father of Mr.

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Wade's, hearing of his fon's illness, answered with indifference. " that he could do nothing for him," and left him to his fate. The other, when the accounts reached him, hurried down, and watching for a favourable moment, crawled on all-fours along the weather By that time, gunwale to his fon, who was in the mizen rigging. only three or four planks of the quarter-deck remained, just over the weather-quarter gallery; and to this fpot the unhappy man led his fon, making him fast to the rail to prevent his being washed away. Whenever the boy was seized with a fit of retching, the father lifted him up, and wiped away the foam from his lips: and if a shower came, he made him open his mouth to receive the drops, or gently squeezed them into it from a rag. In this affecting fituation, both remained four or five days, till the boy expired. The unfortunate parent, as if unwilling to believe the fact, then raifed the body, gazed wiftfully at it, and when he could no longer entertain any doubt, watched it in filence till it was carried off by the sea; then wrapping himself in a piece of canvals, funk down, and rose no more, though he must have lived two days longer, as we judged from the quivering of his limbs when a wave broke over him.' P. 22.

The Nature and Danger of Infidel Philosophy, exhibited in two Discourses, addressed to the Candidates for the Baccalaureate, in Yale College, September 9th, 1797. By the Rev. Timothy Dwight, D. D. President of Yale College, with a Recommendatory Address, by the Rev. Dr. Ryland, and the Rev. Mr. Fuller. 8vo. 1s. 6d. Hurst.

This is an academical oration; but it differs much from academical orations in Europe. Here are no ornaments of style or language: a dry enumeration of the tenets of many ancient and modern philosophers, and a contrast drawn between their doctrines and the purer precepts of the Gospel, form the substance of the discourses, which probably seemed long to the 'young gentlemen' to whom they were addressed, and are made longer for the benefit of the reader. A curious argument struck us in our progress through this pamphlet, and it was almost the only thing that could excite attention.

In our own land, and in every neighbourhood, may be daily found those who adorn the human name with all the virtues, which infidels have at any time professed, and with many of a superior kind, to which they have never formed a pretension. So evident is the want of morals on the part of insidels, in this country, generally, that to say—"A man is an insidel"—is understood, of course, as a declaration, that he is a plainly immoral man. On the contrary, to say—"A man is a true or real Christian"—is universally understood as a declaration, that he is a man distinguishedly virtuous. This phraseology has its origin in the experience, and common

fense, of mankind, and may be fairly assumed as complete evidence of the sentiment alleged.' P. 77.

In Turkey, the term infidel is very common; it is the epithet by which Christians are distinguished; and to say that a man is a good Mussulman is universally understood as a 'declaration that he is a man distinguishedly virtuous.' According, therefore, to the mode of argument used by this academic, Christians are universally men of bad, and Mohammedans men of good morals. But rhetoric and logic cannot be expected to have arrived at their acme either with the young gentlemen or their teachers on the other side of the Atlantic.

Report from the Clergy of a District in the Diocese of Lincoln, convened for the Purpose of considering the State of Religion in the several Parishes in the said District, as well as the best Mode of promoting the Belief and Practice of it; and of guarding, as much as possible, against the Dangers arising to the Church and Government of this Kingdom, from the alarming Increase of Profaneness and Irreligion on the one Hand, and from the False Doctrines and Evil Designs of Fanatic and Seditious Teachers on the other. 8vo. 1s. Rivingtons. 1800.

This report comes out under very fuspicious circumstances. is not faid by whom the meeting was convoked, nor who were the persons authorised to hold such a meeting. It is stated that the bishop of Lincoln gave his permission for holding this assembly, which is declared to have been a general meeting of the clergy of a district in his very extensive diocese; and yet, if such a meeting was ever holden, the name of the district is not communicated to the public. We can scarcely believe that such a meeting ever took place, because it would be not only unprecedented, but also useless if not dangerous for clergymen to meet without the usual forms and authority of the church. There are episcopal visitations, archdeacons' visitations, &c. &c. in which questions of doctrine and discipline may, under the cognisance of the proper officers, be discussed; and, on a proper application to the bishop, there cannot be a doubt that a peculiar meeting might receive his fanction and authority: yet he would scarcely allow the proceedings of such an affembly to go forth to the world without his fanction, much less without any apparent fanction whatever. In these times of innovation, the heads of the church will be careful that examples of irregularity do not proceed from their own body.

The report is drawn, it is faid, from the information received from upwards of one hundred parishes, in which the church is not attended by one person in three, nor the sacrament received by one in six of the adults. There are seven meetings of dissenters commonly so called, and thirty-eight of the methodists; and of these thirty-eight meetings only twenty-two are appropriated wholly to

religious purposes.' It is against the efforts of the latter class that the report is framed; and among the remedies proposed, of which many are good in their kind, that which is most prominent is the necessary of applying to the legislature for new powers, and for

Such explanations and amendments of the toleration act, as, without infringing in any degree upon any of the privileges, immunities, and exemptions, which the different from the church of England now enjoy, shall secure the church from fraudulent intrufion or encroachment; either by defining the number of adult inhabitants that shall be necessary to establish a meeting-house, or by such other means as the legislature in its wisdom shall judge expedient. P. 20.

The powers of the church are at present sufficiently ample; and the spiritual exertions of the clergy will prevent any inroads on the establishment from ignorant and illiterate preachers: at the same time it will be dissicult for the legislature to interfere in the discipline of a meeting-house without infringing that toleration which it has ever been the pride and honour of the Hanoverian samily to maintain.

Some Information respecting the Use of Indian Corn: collected from the Papers of Mr. Winthorp and Mr. Howard; with Observations from Mr. Parmentier, on the Use of Potatoes in Bread; and Mr. Dossie's Directions for the making of Bread in private Families. 8vo. 1s. Baldwin.

This publication may be highly useful. It shows that Indian corn, potatoes, carrots, &c. afford, in seasons of dearth, substitutes almost equally valuable. Various economical remarks of importance are added, which we cannot conveniently abridge. The whole must be perused together; and it forms an excellent compendium of what has been written on the subject.

A Defence of the associate Synod against the Charge of Sedition: addressed to William Porteus, D. D. in Reply to his Pamphlet, entitled 'The New Light Examined; or, Observations on the Proceedings of the Associate Synod against their own Standards.' By James Peddie. 8vo. 1s. Hill and Ogle. 1800.

It is an usual and well-known artifice among theological opponents to stigmatise each other with political crimes; and, unfortunately, very sew governors have had the magnanimity of a Gallio, and been willing to leave the combatants to their own discussions. The charge of sedition was a very early charge against Christians; and it has been constantly repeated by the ruling sects of Christians against those who have been deemed heretics or schissmatics. A presbyterian doctor deemed the late times sufficiently savourable to such an accusation; and he accuses the differents from his opinion,

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termed feceders, of fedition: the charge is repelled by the present author with prolixity, yet with firmness; and being neither seceders nor presbyterians, and seeing like by-standers in a game more than the players, we advise the parties to shake hands and be friends, to apply each in his respective calling to the conversion of all to the religion of Christ, and to leave politics to the politician.

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A Letter to the Right Hon. William Windham, on his late Opposition to the Bill to prevent Bull-Baiting. By an Old Member of Parliament. To which are annexed, some Letters and Extracts on the same Subject. Also some Verses on Hunting; with an Address from a Salopian Bull, and the Author's Apology, attempted in humble Rhyme. 8vo. 1s. 6d. Cadell and Davies.

Bull-baiting, throwing at cocks, and cock-fighting, are a differace to the nation; and the instances of cruelty subjoined to this letter will, we hope, produce due effect upon the legislature, and tend to abolish these reliques of a barbarous age. There is a degree of slippancy in the mode of addressing the opposer of the bill, which injures the argument: but, before the meeting of parliament, the supporters of the bill will, it is to be hoped, collect every document relative to their intended reform, and place the whole in a candid and dispassionate manner before the legislature. By very little perseverance on their part, the evil complained of will be redressed; and bull-baiting will not be thought more necessary to this nation than bear-baiting.

A new Preface to the second Edition of Memoirs of the Life, Studies, Writings, &c. of the Right Rev. George Horne, D. D. late Lord Bishop of Norwich, on certain Points in Theology and Philosophy. (Together with some Remarks on a Life of Dr. Horne, inserted in a New Biographical Dictionary.) By William Jones, M. A. &c. 8vo. 1s. Robinsons. 1799.

Bishop Horne, one of the most amiable prelates that ever adorned the church of England, was attached, though not a bigot, to some points in the Hutchinsonian system. His chaplain conceives this to have been an excellence rather than a defect in his character; and, to resute those who think otherwise, he gives his account of the Hutchinsonian creed, in which, when placed in the most favourable light, among many things worthy of praise, there are several sit objects of censure. The opinions of Hutchinson indeed are now so generally exploded, that this is a vain attempt to bring them again into notice. If we lament sometimes that the good bishop was led away in his interpretation of scripture by this fanciful system, we observe so much piety, good temper, and frequently wit in his compositions, that we can make allowances for the wanderings of imagination by which his early youth had been biassed.

The Art of Making and Managing Cyder; deduced from Rational Principles and Actual Experience. By Abraham Crocker, M.S.A. &c. 8vo. 1s. Wallis. 1799.

We have feen this essay in different publications, and had occafion to commend it. The separate publication will contribute to render these very plain and useful directions more generally known.

Observations on the English and French Locks, and on one newly constructed. By an Officer of the Guards. 8vo. 1s. 6d. Grellier. 1799.

Our author analyses the construction of the French and English locks, giving the preference, with reason, to the latter. By them, more fire is thrown into the pan, the wet more effectually excluded, and the next man less injured. In an improved lock, he endeavours to excel each; but, from the oblique position of the hammer, less fire will be produced. The flint will only strike it smartly at the upper part, and the fire will consequently be only thrown on the fore-part of the pan. Brass pans, and hammers of better temper, to be used in action, are real improvements.

Advice to the Commanders and Officers of his Majesty's Fleet serving in the West Indies, on the Preservation of the Health of Seamen.

By Leonard Gillespie, M.D. &c. 8vo. 1s. Cuthell.

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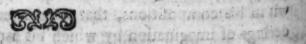
Much experience, affisted by a found judgement, seems to have dictated this advice, which is delivered in a short and plain form, and merits our unreserved approbation.

REPLY TO A CORRESPONDENT.

IN answer to a 'Constant Reader,' we may observe that the work ascribed to Nennius was edited by one Samuel, with many interpolations. For other interpolations, the MSS. in the British Museum, Bodleian Library, &c. &c. may be consulted. Gale's edition is far from being exact, especially in distinguishing the text from the interpolations; and it would require the diligent labour of many years, and great natural acumen, to give a pure edition of Nennius, with all the interpolations thrown into notes as they ought to be; his work being the most vitiated and corrupt in the whole circle of literature. Mr. Bertram's edition, Copenhagen, 1757, 8vo. is pershaps superior to that of Gale.

ERRATUM.

In p. 295 of this Volume, 1. 23, for fuch, read a.



APPENDIX

TO THE

TWENTY-NINTH VOLUME

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OF THE

NEW ARRANGEMENT

OF THE

CRITICAL REVIEW.

FOREIGN ARTICLES.

Mémoires de l'Institut National des Sciences et Arts, pour l'An. IV. de la République. 6 Tom. 4to. Paris.

Memoirs of the National Institute of the Sciences and the Arts for the Fourth Year of the Republic. Imported by De Bosse.

THOUGH accident has prevented us from noticing the last efforts of the Royal Academy, we can no longer delay our account of the institution by which it has been succeeded. May it equal the respectable establishment of nearly a century, which has been subverted in its favour! From a cursory perusal, however, of the six bulky quartos now before us, we think we perceive a decided inseriority to the former Memoirs; but, without suffering our judgement to be preposessed, we shall dispassionately examine some of the more important articles, and give a short account of even the inserior ones.

The constitution of the National Institute has been the subject of so much discussion in periodical works of various kinds, that our readers cannot be ignorant of its nature or objects. We do not recollect that it has occurred in our Journal, but it is unnecessary to speak at length of an institution, of whose works we mean to give a history, and a brief view of it will probably be sufficient.

The old monarchy, rich in institutions which reflected honour on the nation, and adorned with equal splendour litera-APP. Vol. XXIX. NEW ARR. 2 L ture and the arts, could boast of two whose excellence was unrivalled, and which pursued their career through numerous succeeding volumes with unabated spirit. These were the Academies of Inscriptions and of Arts and Sciences. The numerous volumes of the first are distinguished by sound learning, and a correct classical taste; those of the second have explored, with the happiest success, the most recondite paths of science.

The new Institute comprehends these two academies, the Royal Society of Medicine, and an additional department. The three classes into which it is divided, are, I. Mathematics and Natural Philosophy; II. Morality and Politics; III. Literature, and the fine Arts: the second class is new. The first class is designed to comprehend mathematics, mechanical arts. astronomy, experimental philosophy, chemistry, natural hiflory, botany, anatomy and animal history, medicine and furgery, animal œconomy, and the veterinary science. The second class is divided into the analysis of sensations and ideas, morals, legislature, political economy, history and geography; the third class into universal grammar, ancient languages, poetry, antiquities, painting, sculpture, architecture, and music. We cannot think this division happy or useful. It has been found, that focieties, with different and opposite objects, have feldom succeeded. Few will attend, if the probable entertainment of the evening is likely to be of a nature opposite to that which has engaged their chief study; and we have seen, even in our own time, a respectable society dwindle into infignificance by an extension of its plan. It may indeed be alleged, that thefe are in reality three focieties under the management of very different members, connected by little more than the flight band of a title, and four annual meetings. But this only weakens the objection, without removing it. The fubjects of every separate division are extremely heterogeneous, and fome of them have scarcely any mutual dependency what-

There is another circumstance of some delicacy, which we shall merely hint at. The former members were connected with science and the academy, by a small pension. It was considered as a pledge of their attention, and an incentive to their exertions: it appears to have proved so. Though this pension was but small, it was adapted to the academician's wants, and the circle within which he was confined. At present, the exertions, we apprehend, are all voluntary, and we fear that, on this account, they may sometimes be relaxed, and occasionally sail. The present is not the period when deep study and prosound research will become sathsonable; and, while this is a subject of regret in general, it restects the highest credit on our countrymen, who, without the most dis

stant prospect of reward, have advanced science in so many de-

partments.

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When we examine these volumes generally, we shall be struck with the variety of their subjects, and from recognising many of the names, conspicuous under the ancient regime, we anticipate, with reason, a rich harvest of information. Yet remembrance will force its way, and we shall ask, with a sigh, Where is Viq d'Azyr? Where is Lavoitier? Where is—But the task is a tedious and a painful one, and would introduce observations unconnected with our principal subject. As affording the most important articles, we shall first take up in detail the two scientific volumes.

The first part of the volume, which contains the mathematical and philosophical papers, relates to the prizes; and we find the National Institute has adopted one of the children of the old academy, by continuing the reward for the following design—' The construction of a pocket-watch for the determination of the longitude at sea, of such a nature that the divisions may point out decimal parts of a day.'—In other words, that the day may be divided into ten hours, the hour into 100 minutes, and the minute into 100 seconds. They have, however, limited the conditions to a watch whose divisions

mark the decimal parts of a day.

The subject of the second prize, from the physical class, is a comparison of the nature, form, and use of the liver, in different classes of animals.—This is also an adopted child from the former institution, and the objects are well illustrated from their programma; but we need not explain them, particularly as the term is expired. The prize for each is a gold medal, of the value of a kilogramme, and the philosophers of all nations are invited to become candidates. It is recommended that the essays be written in French or Latin, but any other

language is not excluded.

A list of the works which, in the opinion of the Institute, deserve to be printed in the volume of 'learned foreigners,' follows. These are, 1st, Observations on the Births, Marriages, and Deaths, at Montpelier, from 1772 to 1792, inclusive, and the Calculations relative to the Probability of the Duration of Human Life, arising from them. 2dly, On the Opposition of Jupiter and Mars, observed by M. Bouvard. The machines, inventions, and preparations, approved by the class, are the metallic thermometer of M. Regnier, the crayons of M. Conté, and the anatomical preparations in wax by M. Laumonier: the last are judged to be superior to any thing ever before executed of this kind. A list of the works presented to the Institute is subjoined.

What was usually styled an éloge is now called an 'Account or Notice of the Life and Works,' &c. The 'notices'

in the first volume contain the lives of M. Vandermonde and M. Pingré. The fulfome style of exaggerated panegyric is now reduced to a dress more modest, but something of the old school still remains. The latter has, we find, completed the History of Astronomy during the Fifteenth Century, and

it is now in the press.

The first article is entitled 'A Memoir on the morbid Protrusion of the Tongue, out of the Mouth, by Pierre Lassus." Much medical erudition is thrown away on a very trifling The disease is not the hernia of the tongue, mentioned by Sauvages, but an elongation of the organ, and to be cured by repressing with a bandage, and keeping it within the mouth by a kind of bridle. We are pleased with the invention, and could it have been adapted also to have restrained. the author's pen, it would have shortened this memoir, and faved us many head-achs.

· II. Observation on the spontaneous Separation of the Tibia and Fibula in their middle Parts, in consequence of a Spha-

celus, by M. Defeffartz.'

We wished again for the bridle to have shortened this narrative of no uncommon fact. The author would have done

wifely to have amputated when the feparation began.

'III. An Examination of the Facts which Girtanner has adduced in Favour of his Opinion respecting the Nature of the Radical of the Muriatic Acid, by Van Mons.'

This effay has already occurred to us, in our review of the

Annals of Chemistry. They are followed by

'IV: New Experiments, tending to prove whether Hydrogen forms the Radical of the Muriatic Acid.' Van Mons decides in the negative.

· V. Observations on the Structure of the Crystals, called Zeolithes, and on the electrical Properties of some of these,

by M. Hauy.'

This memoir is incapable of abridgement. We have often regretted that it is impossible to bring this very important part of mineralogy within the reach of general readers, both on account of the mathematical obscurity of the descriptions, and the want of plates.

· VI. Process for dissolving the elastic Gum in sulphuric

Æther, by M. Pelletier.'

This process consists of boiling the gum, then cutting it in small pieces, and again boiling it, before it is put into a matrass with the æther.

· VII. Observations on the Strontian, by M. Pelletier."

This is a very able and judicious memoir; and, though the author does not add greatly to our knowledge on the subject, we may be allowed to collect into one view the different facts of importance, which diftinguish firontian from barytes, and establish its claim as a new earth. He finds the carbonate of strontian is not poisonous, like the native carbonate of barytes, nor emetic, like the artificial carbonate of barytes. It is specifically lighter than the carbonate of barytes, and abandons its acid more easily when heated, though it contains, in general, a larger proportion than the latter. Calcined strontian appears to be soluble both in cold and hot water, but more copiously in the latter, so as to crystallise when cooled, a property common to it and barytes. The nitrats and muriats of strontian appear more soluble than the corresponding barytic salts: the slame of alcohol, to which the former are added, is blue; with the latter, a yellowish white. The strontian appears to contain no lime, and the nitrat of strontian is not decomposed by prussat of pot-ash, like the nitrat of barytes.

'VIII. Memoir on the Place of the Node of Saturn's Ring

in 1790, by Honore Flaugergues.'

Astronomers have hitherto not succeeded to their satisfaction in ascertaining the longitude of the node. Our author, who observed at Viviers, in the Vivarrais, ascertained the time of its appearance, in 1789 and 1790. The position of the descending node, in 1790, was consequently found to be 11° 20° 52′ 59″, differing from the position, as determined by Lalande, only in 17′. Comparing these with the observations of Maraldi, in 1714 and 1715, the node of the ring appears to have a retrogade motion on the ecliptic, amounting to about 2° 30″ in 175 years, probably caused by the attraction of the satellites, chiefly by that of the 5th satellite.

IX. Observations on the two Processes employed for the Fabrication of Verdegris, or Acetite of Copper, by M.

Chaptal.'

The first, employed at Montpelier from time immemorial, consists in fermenting the mock of the grapes, and stratifying it with plates of copper, to oxydate the metal. The second is an invention of a later date, at Grenoble, and in its neighbournood, and is confined to sprinkling the plates of copper with distilled vinegar. The first is cheaper, and better adapted for the painter, but the latter is dryer, of a more crystalline hardness, and more useful in dyeing. The difference between these two preparations is, that the former contains the acetite of copper, mixed with the extractive matter of the grape: in the latter the falt is purer.

' X. Observations on the Soap of Wool, and its Use in the

Arts, by M. Chaptal.'

This article we long fince noticed. It was published, soon after it was read, in 1796, in the Annales de Chymie.

'XI. Astronomical Observations made at Viviers, in the Department of Ardeche, by Honore Flaugergues.'
These observations are incapable of abridgement.

' XII. Experiments made by Order of Government on the

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Navigation of the Seine, by M. Forfait.'

The necessity of a speedy conveyance between Rouen and Paris was severely selt in the dearth of 1794, and the government directed an inquiry into the most convenient form of a vessel, to sail up and down the Seine, with the greatest rapidity, by means of a sail, and to ascertain the different curvatures of this circuitous river, in order to facilitate the navigation, and avoid the other difficulties which it presents. The commissioners seem to have executed their task with ability; but, independent of the discussion being of local importance only, the want of a map will prevent our enlarging on it.

'XIII. A Memoir on the Effects of the Cold of Ventole, An. IV. (February and March, 1796), on different Vegetables,

and particularly the Pear-Tree, by M. Héritier,'

After an open winter, the thermometer (Reaumur's) funk 6° below the freezing point, and continued fo from the 26th of February to the 10th of March, By this feverity of weather the nut-tree was not injured, fince its fruit is fo carefully defended by the calyx. Other trees were greatly hurt, but the most fingular effects were observable on the pear-tree. Though the flowers were apparently uninjured, the pedicle was feemingly blighted. Yet many of the pears increased, and the liber (inner bark), as well as the epidermis, were not fo much injured as the external wood and medulla. These were found wholly sphacelated, while the liber had deposited fresh woody flrata: the pediculi of each floret were scarcely, if at all, affected. On a particular examination, it appeared that, at the time of the frost, the corymbi were beginning to expand at the base, that the external florets were only affected, and it is precifely with the base of the bud that the pedicle of the corymbus corresponds. This part, therefore, was alone injured. It is fingular, that the part of a flower, most fensible to the The stigma, the style, and the germ, feel cold, is the pistil. fuccessively its effects. The next organ, in point of fenfibility, is the stamen. This, corresponding with the effects of cold, which is greater on the medullary substance; and on the wood, than on the liber or epidermis, appears to confirm Linnæus's celebrated canon. 'Calyx fit ex cortice, corolla ex libro, stamina ex substantia lignea, pistillum ex propria medullari substantia.'-Various insects, and even the caterpillars that were hatched, refifted this extraordinary cold, but they were probably driven to fome shelter: those whom the cold apparently furprifed, were killed.

XIV. A Memoir on the Locked Jaw, which is the con-

sequence of Wounds, by M. Sabatier.'

The locked jaw is apparently uncommon in France; for

M. Sabatier, a furgeon of ability and reputation, had seen sew instances prior to 1772. His practice was rather unsuccessful; but the complaint is very seldom cured, and, in some of the cases, he confessedly sailed by giving opium with too great timidity. In one, this sault could not however be imputed to him, for his patient took thirty-six grains of solid opium in twenty-sour hours. On the whole, the practitioners of this country will not derive any very considerable advantage from the memoir before us.

XV. Observation on the Operation of the Trepan per-

formed on the Thigh Bone. By M. Tenon.'

This operation, which confifts in taking out an injured portion of the bone, has been more than once performed in England with success. We do not recollect, however, that the trepan has been applied, as in the case before us, to the great trochanter, but it succeeded well. M. Tenon sound great difficulty in conquering the loose spungy granulations from the bottom, or medullary part of the bone, but he employed, with the greatest advantage, the lapis infernalis. The disease was owing to a bruise on the part five years before, carelessly neglected.

"XVI. Inquiries respecting the Human Skull. By

M. Tenon.'

This is an article of laborious refearch and minute calculation, which admits of very extensive application, and, of courfe, requires our careful attention. The particular measures we shall not always notice, for they are adapted to French heads, and a Frenchman's head is neither fo large, nor perhaps so deep, as some others. We mean not to trifle; but shall add, from our author, an anecdote, premising only that by 'the north' a French author more frequently means Holland and Flanders, than Denmark and Sweden .- 'A cargo of hats, which the late M. Chatelain, a famous manufacturer at Paris, fent to the north, on blocks of one decimeter fixty-two millimeters, and one decimeter eighty-nine millimeters in diameter, like those prepared for the inhabitants of Paris and South America, were returned as too small. They were required from the largest fize to two decimeters seventeen millimeters. This measure was considered as extraordinary, as the mean fize with the hatter's compass is one decimeter seventy-fix millimeters at mature age, and one decimeter forty millimeters at one year old *.'

From our author's very attentive examination of different

^{*} The fully of changing established measures is in no respect more conspicuous than in the, disturbance of that universal language, arithmetical botation. The decimeter is nearly four English inches, and the centimeter is not the millimeter is, or 0.4 and 0.04 respectively. Rev.

skulls, it appears, that from birth to fix years of age, the head increases more in the direction of the largest circumference and diameter, than in that of the smallest: after fix years, an increase in the opposite direction takes place. In extreme old age these measures lessen, except the large circumference. which still feems to grow a little, and the small diameter. which continues nearly the same as in the vigour of life. The greatest diameter and horizontal circumference are situated about an inch higher at birth than in mature age, which thows that these fink lower in the progress of life. In comparing the increase of the cranium by measure with that by weight, from infancy to mature age, it appears that, by measure, it exceeds at the former period half what it attains at the latter, while, in weight, it has not in infancy attained the twentieth part of what it afterwards acquires. The æra therefore of its greatest and most rapid increase in measure, is from conception to birth, which explains the fource of numerous accidents to which the heads of embryos are subject: these the author promiles to explain in a future memoir. He finds also, that the most considerable increase in extent is from birth to the sixth' year; in weight, from that period to the vigour of life. Its decrease in decrepitude is real, but less in extent than in weight, amounting in the latter to 2 of the mean weight in the vigour of life. These are facts which cannot be contradicted; but, when the author steps from the ground of fact to that of opinion, he is entitled to less attention. Thus he remarks, that, as in the vigour of life the earth is most copiously produced in adding to the folidity of the bones, and in old age absorbed in consequence of the diminution of weight, so these periods are most subject to the calculus vesicæ, which consists of the fame earth, a conclusion opposed by fact in every part.

XVII. A Memoir on the Advantage and Necessity of taking only a little Blood at once in Children with large Heads. By M. Desessarz.

Perhaps the precept may be proper, and it certainly merits attention; but the most singular part of the memoir is the case which suggested the proposal, though we would guard against drawing the conclusion that the same structure takes place in every large head. The child died of a sever, and the cause of his death was certainly inflammation and gangrene in the stomach and intestines; but, on examining the head, which we have said was large, the offisication was found complete, without any traces of sutures, or of a communication by blood vessels from the external to the internal parts, consequently when the latter vessels had a surplus the usual channels of relief were stopped, for there was not the vessige of a single vessel penetrating the bone. There was also very little blood in the ventricles, and the dura mater compressed the brain very

forcibly. Though we object to M. Desessarz' conclusion generally, yet perhaps it may be admitted in the second instance, the brother of the child who died. His head was equally large, he was attacked with sever, and cured by repeated small bleedings.

* XVIII. State of Agriculture in the Canary Islands. By

H. A. Teffier.'

This author has formed a magnificent plan,-to give an abstract of the state of agriculture of every country, by circulating queries in different kingdoms. The memoir before us is the result of his inquiries into the state of the Canary Islands. He gives some account of the climate, &c. of these islands, and then proceeds to his detail. In the neighbourhood of Teneriffe, the ground, though stony, is very fertile, producing often eighty and a hundred for one. The other islands are fertile, but not in the same degree. Manures are scarcely known, though the islands produce a large quantity of mark and fea wrack. Fortaventure and fome others contain numerous herds, and their dung is thrown with little care, and without any admixture, on the ground and the gardens. The productions are corn, a little rye, a large quantity of barley and maize, potatoes, artichokes, and vetches. For animals they cultivate lupines, peafe, lentiles, millet, and a few oats; for the arts, a little flax, anifeed, coriander, and faffron: wood, forrel, and fumach, grow fpontaneously. Kati grows on its shores, and the cotton-tree and sugar-cane find the climate congenial to them. The wines of Teneriffe and the neigh-bouring islands are well known. The more minute details we are unable to follow. The stupidity and idleness of the inhabitants defeat the kindest intentions of nature, and few exertions are made to increase the comforts or conveniencies of life.

'XIX. A Memoir on the Abuse of Clearing Grounds. By

H. A. Teffier.'

These remarks are highly judicious, but they are chiefly applicable to France. In the rage for clearing grounds, M. Tessier tells us, that woods have been grubbed up, and sheep-walks destroyed; and he particularly recommends that no woods should be destroyed without as much being again planted. In England we do not depend on wood for suel, either in the arts or private life; and we have found that, with care, we can procure fine wool without extensive sheep-walks. In England and Scotland, however, after every inch of fertile ground has been cultivated, many elevated and otherwise use-less spots will remain for the sheep, even should the weak idea of the fineness of the wool being connected with a free extensive range still be cherished.

! XX. Observations on the Juices of some Vegetables, and

on the Means by which the Carbon circulates through them, and is deposited to supply their Nourishment. By J. A.

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Chaptal.'

This fhort memoir contains much valuable information. Our author had been before engaged in examining the juice of the euphorbium, and he now proceeds to confider the vegetable juices more generally. The precipitate of the juice of the euphorbium is composed of 1 of fibre and 2 of resin, which are foluble in water by means of the extractive matter, They are separated by caloric, oxygen, acids, alkalis, alcohol, and even by rest. With oil, this precipitate forms a kind of soap, and it is fingular that the union is effected by means of water. The emulfions and the juices of the herbaceous plants offer similar appearances. They differ only in the quantity of the precipitate, and the ease with which it is obtained. The precipitates from decoctions contain much of the ligneous matter, which is, with difficulty, feparated. Seeds contain the largest quantity of precipitate, and of course the largest proportion of carbone, for the fibre is wholly carbonaceous. Thus the nutriment of plants is entirely of the latter kind, for their oxygen and hydrogen are furnished by the decomposition of water; and into these elements all plants may be refolved.

If we compare these results with the appearances which the nutritions sluids of the animal body present, we shall be struck with their identity. Milk is decomposed by the same reagents, and its precipitate has the same texture with that of vegetables. It is equally insoluble in water, is dissolved by oil, and contains also the sibrous part. The liquor which rises to the top is clear, limpid, and contains a small portion of a saline extractive matter. The difference consists in the nature of the elements of these component parts; for, after this first analysis, farther decomposition shows no other relation between them. The blood is equally analogous in its texture. In this, the sibre is separated by cooling only. If the separation is prevented by agitation, and oxygenated muriatic gas passed through it, every bubble concretes the surrounding parts, and the whole is a mass of greyish bubbles, without any remaining sluid.

As the fibrous matter becomes folid, and no longer foluble when united with oil, the necessity of impregnating the vegetable fibres with oil, previous to dyeing, is obvious, in order to obtain a more fixed colour; and when any extractive matter is present, as is the case when the juices are obtained by expression, they will not combine with oil. Hence the necessity of cleaning the cloth very carefully before the dye is employed, will be equally clear. In the process of the vegetation the carbon is dissolved in water, and thus conveyed

Memoirs of the National Institute of Sciences, &c. 491 through the vessels of the plant. Carbon is soluble in water by means of extractive matter, and is surnished by decayed regetables.

XXI. A Memoir on the Motions of the Celestial Bodies

mund their Centres of Gravity. By M. La Place.'

This very ingenious and elaborate memoir, where the most minute and intricate resources of analysis are employed with the happiest success, cannot be abridged. It exhibits an eleant and accurate theory of twenty rotatory motions, and their periodical and secular variations. M. la Place shows, that the only fensible change in the axis of the earth, with respect to the plane of the ecliptic, depends on the longitude of the lunar nodes, which has been called, by its first discoverer, Dr. Bradlev, nutation. Another small inequality, not exceeding a second, we may omit in this place. The fecular variations of the terrestrial orbit produce corresponding, but disproportioned variations, in the polition of the earth's axis. This checks the too great obliquity of the ecliptic, and produces some slight altronomical variations, which are of importance to the profelled astronomer only, who will pursue them in this very learned memoir. The earth, our author thinks, by comparing is motions with the theory given in the Memoirs of the Academy of Sciences, is not homogeneous, and its oblateness does not exceed 304 part of its diameter.

'XXII. A Plan of the Experiments now making in the Botanic Garden on Sheep and other domestic Animals. By

M. Daubenton.'

We with pleasure renew our acquaintance with this respectable veteran, the friend and affistant of Busson. In this
article we have, however, only the plan of proposed experiments. These are, on the union of the ram and she-goat,
or the he goat with the ewe; on folding sheep; on the Siamese
hog, and its utility as an article of food; on the methods of
improving the domestic rabbit, so as to give its sheth the slavour
and relish of the wild ones, which he purposes to attempt by
varying their aliment. The principal experiments relate however to the food of sheep, and the author is inquiring, with
particular attention, what vegetables sheep will eat when they
cannot obtain their favourite food.

XXIII. Observations on generic Characters in Natural

History. By M. Daubenton.

Our author is disgusted with the language of modern observers, who speak of or describe a new genus, when their object is to delineate the form or the properties of an individual. We cannot refrain from copying the little pettishness of old age, perhaps the last shaft levelled at the Linnæan system, almost at the conclusion of the eighteenth century. 492 Memoirs of the National Institute of Sciences, &c.

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What fuperiority then has a genus or a species over a class, that naturalists should begin by thus first announcing it, by thus bringing it forward. I foresee that the methodist will immediately refer me to the Linnæan school to learn the reason—I already know it—I have witnessed the birth of this school—I have seen the origin of this mass of principles, of rules, and precepts, invented to raise the methods of natural history to the rank of philosophy.

Though much of the same spirit prevails in the present at ticle, it may be read with advantage. The sum of the whole is, that the formation of genera is an artificial labour, and the business of an observer is to describe individuals, without hashing forming incongruous associations, which time and farther inquiry will again destroy. The following confession (perhaps the last words of this author) deserves attention.

We must then employ systems, though not always agree able to nature: they have considerable advantages which cover as great faults. They are artificial and crasty guides, which we must distrust the first moment they pretend to follow nature with minute exactness.

on the Soil of the French Republic, by folding Sheep, and the Suppression of Fallows. By M. Daubenton.

The title sufficiently expresses the object of the memoir. The advantage derived from solding sheep is in consequence of their excrementations discharges being employed uninjured by evaporation or mixture.

and on its Complication with Scarlet and Miliary Fevers and other Deprayations of the Humours. By M. Deffart.

This is a well arranged, though tedious, history, of an epidemic small-pox, to which, about the termination, the two other epidemics were added. Their coincidence produced no remarkable appearance, nor materially altered the treatment, except that the cold regimen was not pushed to so great an extent. Indeed, in general, our author is timid in employing cold very rigorously, even in the common small-pox. The memoir itself we can scarcely abridge, but it may be read with advantage, though the English practitioner will often think the remedies trissing.

'XXVI. Memoir on the Organisation of the Monocolyledons, or Plants with one Seminal Leaf. By M. Des Fortaines.'

Our author, in this excellent memoir, first speaks of the cotyle dons in general, and denies the existence of the classes of former botanists, which they styled acotyledons and polycotyledons

The first, which contained the mosses, were really plants belonging to those whose organisation he describes, and the latter,
deeply indented dicotyledons. In his description of the structure, the illustrations are taken from trees, as the parts are
more perfect, and he premises a short description of the
dicoledons, the only ones which authors have hitherto noticed.
The stalks of the monocotyledons contain the same organs,
but with differences so pointed, that we are obliged to admit in
the vegetable kingdom two great natural classes, independent
of every method and every system.' This difference is distinctly pointed out in a great variety of families, which compose
the order of monocotyledons, such as the palm-trees, the
graffes, the asparagi, the rusci, the lilies, mosses, &c. The
definitions of these natural classes we shall transcribe.

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'I. Vegetables which have no distinct concentric strata, whose solidity lessens from the circumference to the centre; the medulla interposed between the fibres, without any medulary elongations in diverging radii.

'2. Vegetables which have concentric strata, whose solidity lesses from the centre to the circumference; the medulla inclosed in a longitudinal canal, with medullary elongations in diverging radii.'

Our author would not, with Linuaus, separate the cycas from the palms. These descriptions are illustrated with five plates.

We purposed to have finished our review of this volume, but the article is already unusually extended. We shall again take it up in a future Appendix, and probably enliven it with an intermixture of some of the lighter entertainments from the volume that follows.

Traité du Calcul Differential et du Calcul Integral. Par S.F. La Croix. Paris.

ATreatise on the Doctrine of Differentials or Fluxions. 2 Vols. 4to. 21. 2s. Sewed. Imported by De Boffe.

IN the midst of war and saction, the sciences have found able advocates in France; and if at one time the possessor of power seemed to have been the determined enemies of all knowledge as well as of all virtue, the present government is hastening to bury in oblivion the error and crimes of the revolution, by an attention to the arts which distinguish a civilised nation. The mathematics are particularly held in honour, and it may be well imagined that they must be pursued with some alacrity, since the chief consul is so able to appreciate their merits; and

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Carnot, supposed to be the ablest war minister in France, has not been prevented by the fatigues of his office from purfuing his inquiries in the most difficult parts of fluxions and algebra The names of La Croix, Legendre, La Grange, La Place, the labours of the Institute in measuring a degree on the surface of the earth, in arranging the new standard of measures, in im. proving their logarithms, and accommodating their new tables of fines and tangents to the old division of the circle, thele acts, together with the work before us, and fimilar productions, show a degree of activity, energy, and science, not to be paralleled in the rest of Europe. In whatever estimation we may hold our neighbours on the continent for their speculations in government, justice compels us to point out the striking contrast between this new republic and the most extensive empire in Europe: whilst, in the latter, the admission of foreign literature is regarded with extreme abhorrence by the fovereign, the chief of the republicans is endeavouring to make his reign flourish as much in arts as in arms, and science and literature receive from him unbounded patronage.

La Croix, the author of the work before us, and professor of mathematics in the central schools, was well known under the ancient government, and had diftinguished himself by several interesting memoirs in the Academy of Sciences, among which that on the Tables for the Sun, and another, which obtained the prize for the best theory on maritime insurances, deserve particular notice. In his new office of mathematical professor, he perceived the want of a complete work on fluxions, which should not only fix on a fure foundation the principles of the science, but collect together the improvements made in it, which were dispersed through the works of Euler, D'Alembert, the Bernouillis, and others, as well as the academies of Italy, Paris, Berlin, and Petersburg. In conformity to his views he drew up a plan of his intended work, and prefented it to the Institute, together with the introduction, and the four first chapters. The Institute referred it to the examination of La Place and Legendre, who returned it with the highest commendations, and, from the specimen which they had read, gave their testimony to the merits of the author, whose work was, in their opinion, likely to be diftinguished for choice of methods, purity and strictness of demonstration, and the extensive application of its precepts.

Such a recommendation naturally insures to the work a favourable reception in the mathematical world; and as it stands not in need of our praise, we should, after such authority, with dissidence propose our censures. It is evidently the production of a very prosound mathematician, and it embraces the most dissicult parts of the science. If the young people of France can enter so deeply into these studies, for the author professes

to be animated only with a wish to make his book useful to them, their central schools must be far advanced before our universities; for, instead of the young people, we should place it rather into the hands of the professors of Britain. But we hasten to give our readers some view of its contents, from which they will be enabled to judge how far our opinion is

well founded.

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The work is contained in two volumes, quarto, of which the first extends through upwards of five hundred, the second upwards of feven hundred pages. In the first volume is a flight history of the discovery of fluxions in the preface, and an introduction, explaining our author's views of those algebraical terms which he calls functions, and on which he builds much of his theory in the body of the work. In the preface he attributes due honour to fir Isaac Newton, without depreciating from the merits of Leibnitz; but he is evidently not much acquainted with the opinion of the mathematicians now alive in Britain, when, in speaking of Landen, he observes, that Landen had freed himself in a remarkable manner from national prejudices, and is 'the only geometrician among the Englith who agreed with foreigners on the great inconvenience in the method of fluxions.' The name of Newton, and the name of fluxions, have indeed contributed much to prevent our mathematicians from inquiring fo rigidly as they ought into the principles of the science; yet are there not wanting many who have expressed their disapprobation of introducing the fuperfluous idea of velocity in the confideration of algebraical terms, and look upon the infinite variations of this velocity as not only more difficult of apprehension, but less justifiable than the divisibility introduced but sparingly by ancient geometricians. In fact, the English have been too tenacious of their method, from the supposed honour which it bestows on the inventor, and thence on the nation which produced him; for if we strip the invention of the dura hypothefis, and unnecessary quality of velocity, the contest between the German and English philosopher will lose much of its interest, and the master of sir Isaac Newton may put in his claims for a greater share of merit in the invention than has hitherto been bestowed upon him by the advocates for either Newton or Leibnitz.

The dispute on the invention of fluxions, it is properly obferved by our author, had not so much in view the interests of truth 'as the passions and self-love of some men of moderate attainments, who would have passed through life without notice, if they had not intruded themselves into the contest.' But let the honour be given to whom it is due, whether to our own countrymen or to a foreigner; surely it is of more consequence to remark, that, though the supposed new science 496 La Croix on the Dostrine of Differentials or Fluxions.

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exists under different names in our island, and on the continent rests on different bases, yet, when we have removed the terms fluxion and difference, view an operation on paper, where the one is distinguished by a point, and the other by the letter d, the mode of treating algebraical terms and the conclusions are exactly the same. Hence, if we ask the fluxionist for the fluxion, and the differentialist for the differential of x2, we receive from the former 2 x x, and from the latter 2 x . dx. The latter allows that when dx is a confiderable magnitude, the true difference between x^2 and $x + dx^2$ is 2 dx + ddx. The former obtains also his 2 x x from confidering the increment $2x\dot{x} + \dot{x}^2$, and 2xdx is to dx, as well as $2x\dot{x}$ to \dot{x} in the nascent ratio of the increments of x2 to x. Here the fluxionist conceives that he can introduce his velocity to advantage, because he can make a point to move over a straight line uniformly, which he calls x; whilst another point moves with an accelerated motion over another line, and the correfponding states of the two lines are to each other in the ratio of x to x^2 . But is not the method of the differentialist more fimple as well as obvious, and more applicable to the future complexity of algebraical terms? His dx means a number to be added to x; and he can show, by the successive application of small numbers for dx, that the ratio of the increment of x^2 to that of x is constantly approaching to that of $2x \dot{x} : \dot{x}$, or of 2'x to 1; whereas the fluxionist cannot make it easy to our conceptions, that though the velocity of his point, defcribing the line measured by x^2 , is always less than that which would carry it through the space denoted by $2xx + x^2$, yet it is to that of the point describing x, in the ratio of 2 x x to x, or of 2 x to one. The case of the differentialist we fee clearly; it is even made tangible; the differences may be expressed in numbers, and we have as clear an idea of 20000001 as of 1000000. But this notion of velocity escapes us in the fimplest case; and when it is applied to terms like , we shall find that the fluxionist never thinks of $y^m + o + x^m y$ his velocity, and that he acts and thinks, if he does not, like a once noted professor at Cambridge, act mechanically, exactly as the differentialist. Indeed, much of this dispute would have been rendered superfluous, if the disputants had inquired into their own conceptions of the changes in algebraical terms, and had discovered that the whole resolved itself into an

To the heads of the two schools then we are inclined to pay due honour; yet the merits of both have, in this respect, been too highly extolled. Their successors have laboured honourably in their respective paths, and it may be attributed to nat

tional prejudices, if we do not allow entirely the justice of the following remark. . The school of Leibnitz has shown a decifive fuperiority over that of Newton, arifing, perhaps, as much from the simplicity in the method of the former, as from the genius of the Bernouillis, his scholars. Yet about the fame period we fee in England, Cotes, who died very young, extending, by the discovery of his theorem, the bounds of quadratures. Moivre, whom France is entitled to reclaim, arriving at important discoveries, and Taylor, by developing the method of increments, whose base was laid by Newton, in his Methodus Differentialis, completing, we may fay, by the theorem which bears his name, the differential calculus? In this remark the nationality of the Frenchman appears. Science knows no distinction of nations, and the sons of science are the citizens and benefactors of the world. No nation has a right to derive honour from the cafual birth of a man of letters or science within its limits, if the individual, when living, derived no advantage from his connection with the country, showering down honours and emoluments on his contemporaries, without genius, without talents, without application, and treating him with flight and contempt, leaving him to poverty, or perhaps, as in the case of Moivre, banishing him from her bosom. Let these soolish prejudices be removed, that nations may learn to bestow due honour on living merit, and cease to rebuild the monuments of the prophets stoned by their fathers.

Our author is a Leibnitzian. His science is the science or method of differentials, which, like the method of sluxions, is divided into two parts; the first, to find the differential of a term; the second, from the given differential, to find the term. In the first volume the first part is considered; the second part is the subject of the second volume. To the first part is prefixed an introduction, giving the theory of sunctions, which are distinguished into exponential, logarithmical, transcendant, and circular functions; and the following general definition is

given of a function.

Every quantity, whose value depends on one or more quantities, is said to be the function of these last quantities, whether it be known or not what operations must be performed to obtain the value of the first quantity from the last quantities.

Thus the root of an equation of five dimensions is a function of the coefficients of that equation, because its value depends upon those coefficients. If $y = ax^2 + bx + c$, then y is a function of x; and if $y = axz + bx^2 + cz^2$, then y is a function of x and z. The consideration of these functions, which is carried to a great extent, does not present to our view

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fo many advantages as to the writer; they naturally arise in every system of algebra; or if, as in this work, the sine is called the succion of the arc, the examination is made, though under different terms, in every book of trigonometry.

If $y = \frac{ax}{x+a}$ in any fystem, the values of y are considered; and

in this work the only difference is, that the writer fays that the function of x is not capable of passing through every degree of magnitude, though x is; for we should say that y is contained between o and a, and, in fact, the whole of the reasoning upon these functions will be intelligible at once to every one who considers the usual equation

 $y = Ax^{\alpha} + Bx^{\beta} + Cx^{\gamma} + Dx^{\delta} + Ex^{\epsilon} + x^{\epsilon}$ and investigates the values of y upon the variations of either

x, or its coefficients A, B, C, D.

Our limits do not permit us to give the examples of our author's method in the examination of the binomial theorem, which is, in fact, much more complicated than in the usual process, when

is multiplied into 1 + x, and thence the law of the coefficients is discovered. In the same manner the series for $y=a^x$, or

affords too much expansion, in our author's style, for the precision of an English mathematician; and, though we approve highly of the investigation of the values of an arc in terms of the sines, cosines, and tangents, there seems throughout an attempt to clothe the functions with some new idea of importance, and to bring forward, in a more imposing form, a degree of knowledge which has long been familiar, though this may appear bold language in Paris, to us on this side of the water.

In eighty pages of introduction, we have a sketch of the doctrine of functions, and become anxious to enter on the differential doctrine. The first chapter of the work professes in its title to explain analytically the principles of this doctrine, and we hope to have an early intight into the new mysteries; but as Pascal, we are told, happily informs us that definitions consist in imposing a 'name only on things marked out clearly in terms perfectly known,' we must be content to wade through more than twelve pages of functions before we come to the description of the science. Quantities are either variable or invariable; the variable quantities may be expressed by the addition or subtraction of k to n from the unknown quantity. Thus if x is the unknown quantity in a term, and it is creases, a+k is its new state; and if it decreases, x-k is its new state. By substituting x+k, or x-k, for x in the

La Croix on the Doctrine of Differentials or Fluxions. 499 given term, we have a new series of functions, and the differential art, or, as we term it, the doctrine of fluxions, consists in descending from the generating function to the derived functions; the integral art, or, as we term it, the doctrine of fluents, consists in ascending from the derived functions to the generating function. Here, if we set aside our new application of functions, we see at once that if x increases to x + k, and x^n consequently to x + k, the increment of x^n is

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in which each of the terms may be derived the one from the other, or, according to our author, each function depends on its preceding function. But though we have been informed what the differential art is, we are far from knowing yet what the differential of fluxion of x" is; and a young scholar, we should think, would find it very difficult, at the end of the g7th page, to comprehend that 'to find the differential df (x), he must write x + dx, instead of x, in f (x), or the function of x develope f(x+dx), or the function of x+dx, confining himself to the terms affected by the first power of day and subtracting f (x), or the function of a from the refult.' The obscurity in this phraseology arises from the writer's wish to generalise before he has sufficiently explained particulars. We vulgar English thort-fighted people are contented to show a beginner how the fluxion of x2 is obtained from that of x; how the fluxion of x3 from that of x, and fo on by degrees, till we how him how the fluxion of x2 is ob-

tained, and in the same manner the fluxion of xy, or $\frac{x}{x}$, and all this knowledge is in our books, in general, contained in the first eight pages. But our author despites this method, and so plunges his readers at once into series, sine looking series, with Greek letters,

that we shall really admire the genius of the young French if they can comprehend the magnificence of this new science. Before we had finished the 192d page, we could find the differentials, or fluxions of different orders; and by means of the instances given, taken not only from simple algebraical terms, but from sines, tangents, and logarithms, comprehend that from sunctions we could find fluxions. And now the differential doctrine presents itself under a new point of view; for we may henceforward look on it as having for its object the inquiry into the limits of the relations which the increments of variable quantities have with each other, when the relations of the quantities themselves are known. Here we were happy to arrive at a simple plain truth, which is the foun-

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dation of the doctrine of differentials or fluxions, and to which the confideration of the algebraical term x^2+2 , x^2+x^2 , leads us with great ease, without this tedious parade of functions, or the unnecessary hypothesis of motion, introduced into a plain question of addition or subtraction.

The second chapter explains the uses of the differential art,

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and the first step is to expand a multinomial, and

 $(\alpha + \beta x + \gamma x^2 + \delta x^3 \dots)$ " is made equal to $A + Bx + Cx^2$ + Dx3+Ex4. By taking the fluxions of the logarithms of these quantities, and dividing both sides by the fluxion of x, we are enabled, it is well known, to determine the coefficients A, B, C, D. Yet to us it appears a very preposterous method to teach the use of an art, by plunging thus at once into very difficult operations; and the next instance will not familiarise the subject to the learner, as it is to find the value of an arc in terms of its feries, by feries equally complicated. From these instances we are carried to generalisations still more complicated, and it was with the utmost difficulty that we could keep our attention sufficiently fixed to go through page after page of functions with little or no utility; and we anxiously looked for some instance in practice, on which we could with more ease discover the writer's meaning. But this did not easily present itself, and we began to see day only when the author investigated the question of the numerator and denominator of a fraction vanishing at the fame time. Here the method corresponded with that in common use, the division of the fluxion of the numerator by that of the denominator; but the conclusions drawn ought not to be admitted without hesitation by the mathematician. ' Every function appearing under the

form of $\frac{\theta}{\theta}$, when a determinate value is affigured to the variable quantity on which it depends, has always a determinate value, whether it is nothing finite or infinite. This is the general polition, which is, however, contradicted in the next paragraph, where it is proved that quantities expressed by $\frac{\theta}{\theta}$ are really indeterminate, as in the example ax + by + c = 0,

and a + bj + c = 0, in which x being equal to $\frac{b\dot{c} - bi}{a\dot{b} - \dot{a}\dot{b}}$,

and y to $\frac{ac-ac}{ab-ab}$, these values become $\frac{a}{ab}$ by making a

equal to am, and b to bm, and c to cm, when the question would be really indeterminate, fince the second equation max+bmy+cm=o, expresses no more than the first. In this difficulty among mathematicians, which is not solved in

La Croix on the Doctrine of Differentials or Fluxions. 501 this work, we shall observe only, that when a function appears by affigning a peculiar value to the variable quantity under the form -, the function in that instance ceases to exist, and the supposition that the function can have a determinate value arose merely from inattention to the function in this supposed determinate state. For example, $\frac{ax-x^2}{ax^2-x^3}$ appears in the form, when x is equal to a; consequently, to use our author's language, the function of x has in this case a determinate value, which is $\frac{a\dot{x}-2x\dot{x}}{2axx-3x^2\dot{x}}$, or $\frac{a-2x}{2ax-3x^2}$, which, when x is equal to a, becomes -; that is, the function of x has the determinate value of $\frac{1}{a}$, when x is equal to a. Common sense recoils at this determination, when it puts the algebraical terms into numbers, and making a equal to ten feet, and fupposing x equal to it, the fraction appears to be 1000-1000, or nothing at all; and on examining the fraction we see that it really is equal to $\frac{x \times a - x}{x^2 \times a - x}$, or $\frac{x}{x^2}$, or $\frac{1}{a}$. fince a - x, divided by a - x, gives unity. But this supposed quotient cannot be true, when a - x ceases to be a number, and in that case the fraction is $\frac{1}{a} \times \frac{0}{a}$, or nothing at all, as it evidently ought to be. The fact shows itself at once to the person who would draw the curve corresponding to the equation $y = \frac{ax - x^2}{ax^2 - x^3}$, in which it is evident that all the ordinates will be greater than -; but as when & ceases to exist, no corresponding ordinate can be drawn to the curve, so no ordinate can be drawn when x becomes equal to a, and annihilates the relationship between y and x. The length of y extends without limit; as the abscissa is decreased, it diminishes as a increases, and its limit of decrease is -

The chapter concludes with the use of the differential method in discovering maxima and minima, in which we approve highly the mode of determining these questions. The

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effential character of the maximum confifts in this, that the values which immediately precede or follow it are less than the intermediate value, and in the minimum are greater.' To find, therefore, either state, the function is to be considered, when x + k and x - k make it decrease; or x + k and x - kmake it increase, k being necessarily a very small number, as otherwise x + k, or x - k, may carry the function beyond the limits of feveral maxima and minima. Hence it appears that when x + k, or x - k, in the function, both decrease it, the

differential, or first fluxion of the function, disappears.

The third chapter is a digression on algebraical equations, in which the vulgar hypothesis is adopted, and it is faid that it is well known that every algebraical equation of any degree whatfoever, containing a fingle unknown number, is the product of as many binomials of the form x - a, x - B, x - y, as there are units in the highest index of x in the equation.' It is well known that fuch an hypothesis has been formed; but it should be recollected that it is rejected by the most eminent algebraist on this side of the water, who looks upon it as a fiction, hurtful to the progress of science; and, in fact, fince the hypothesis is true in only particular cases, the reasoning deduced from it to other cases, where it is not true, cannot tend to any useful purpose, and must lead to for phistry. Thus it is true in an equation of the form ax $bx^2 + cx^3 - x^4 = d$, but it is false in equations of the form $ax + bx^2 + cx^3 - x^4 = d$; and, as the whole reasoning in this chapter depends upon this hypothesis, it should be considered not as referring to equations, but to the properties of a multinomial, the product of $x - \alpha \times x - \beta \times x - \gamma \times x - \delta$, &cc. In this view the relations of the fum of a, B, y, d, the square of that fum, the cube of that fum, &c. to each other, are demonstrated easily by taking the logarithms of $x - \alpha \times x - \beta \times x$ $x-\gamma$, and of its equal, the multinomial x^n-a $x^{n-1}+$ $bx^{n-2}-cx^{n-3}+dx^{n-4}$, and then the fluxions of each fide. By expanding then the division of $\frac{1}{2}$ $\frac{1}{2}$ x-a' $x-\beta'$ $x-\gamma$ &c. the relation is easily discovered. This question has occupied many mathematicians, but it is difficult to point out any ufeful purpose to which so much labour is applied, as occurs in the next investigation in this chapter, resulting from the hypothesis adopted, and leading to a number of expressions, in which

1 appears, and which ought to be expunged from every

work pretending to mathematical demonstration. We are quite

fatisfied with the refult, from an examination of several quan-

tities, 'that all functions, algebraical, logarithmical, expo-

nential, or circular, which are imaginary, may be brought to

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A and the form $A \pm B \sqrt{-1}$; for the fame wandering of the imagination which could embrace a shadow for a reality, may find any relation it pleases between the various shadows it has engendered.

(To be continued.)

Annales de Chymie. Vols. XXVIII. XXIX. et XXX.

Amals of Chemistry. (Continued from Vol. XXVIII. New Arr. p. 491.)

THE XXVIIIth volume of these annals commences with the year 1799, the seventh year of the Republic, and the first article is a continuation of 'Mr. Hassenfratz' Memoir on Areometry.' The meaning of the term, and the author's objects, we have already noticed. In this continuation of his first memoir, he gives a history of the experiments on the subject, and the refult of the experiments of Newton, Muschenbrock, and Kirwan. With respect to the specific gravity of substances foluble in water, he agrees very nearly with the refults of the experiments of the two former; but his conclusions differ widely from those of Mr. Kirwan, when these two only have examined any substance. The specific gravity of pure pot-ash, for inftance, is by M. Haffenfratz stated at 1.7, by Mr. Kirwan at 4.62. Our present author weighed his alkali in mercury; Mr. Kirwan weighed it in oil of turpentine; and we could with the experiment to be repeated in each manner by other philosophers.

'M. Guyton's Report of the Results of M. Clouet's Experiments on the Method of converting Iron into Cast Steel,' follows. We had once occasion to notice, that, notwith-standing all the pretentions of the French chemists, they have been unable hitherto to rival the English, in their steel manufactory; particularly in the instruments made with cast steel. This they now admit; but think that M. Clouet has succeeded. The history of the different attempts is followed by M. Clouet's processes. The principle is, that steel, when tailed to a high temperature, about 150° of Wedgwood's thermometer, has such an affinity to carbone as to take it from oxygen, and to decompose carbonic acid. The steel is melted with carbonate of lime and argil; but the iron is unreasonably wasted in this process, by the oxygen of the acid; and the author seems not yet to have attained a correct knowledge of

the art.

M. Vauquelin communicates two methods of analysing brass; and has premised some reflections on the precipitation of me-

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by precipitating the metal by pot-ash, which dissolves the zinc, while the copper remains on the filter. The other method is, to dissolve the brass in sulphuric acid, to dilute the solution, and then immerse a plate of clean zinc into the sluid, in conse.

quence of which the copper will precipitate.

Van Mons has translated 'Brugnatelli's Observations on the Nature of the Calculus Vesicæ.' These, however, leave this obscure subject in still greater obscurity. Our author contends, that the soluble part of urinary calculi is the acidulated phosphat of lime; Scheele, and others, call this the lithic acid, and affert that these calculi contain no lime. The insoluble part contains, according to this author, a large proportion of the radical oxalic; and a large proportion of the calculous matter, soluble in nitric acid, is transformed into oxalic acid.

An abstract of the third volume of the chemical part of the Encyclopédie Methodique is incapable of abridgment; and the abstract of the seventh and eighth numbers of Crell's Annals for 1797 will furnith us only with some detached remarks of no small importance. M. Abech would refer the honey-stone to the alumines, and take it from the class of combustibles, since it is not inflammable; but other authors have not found any argil in it, as naphtha will perhaps give the peculiar odour to fossils of a very different nature. In fact, it confifts chiefly of carbone, oxygen, and naphtha. M. Muschin Paschin finds platina, allayed with four parts of copper, fusible and malleable. Platina whitens copper more effectually than filver. The same author crystallises gold and silver, by inflaming phosphorus, dissolved in oil of turpentine, previously mixed with their calces. The oily folution of pholphorus precipitates mercury and filver in a black oily mass, giving a foundation for the expectation of procuring a metallic phosphure. M. Crell informs us, that there are mines of filver, iron, and copper, at the fouthern extremity of Africa; but they have not yet been worked. The communication, relating to the method of fecuring iron from the effects of air and water, relates only to the iron employed for covering houses. author thinks, that a coating of pitch, coated with tin foil, would be alone effectual.

'M. Tassaert's Analysis of the Cobalt of Tunaberg, with the different Methods of obtaining the Metal in a State of Purity, and an Examination of its most remarkable Properties, we cannot abridge. It is sufficient to observe, that the author agrees with M. Klaproth, in thinking, that cobalt so pure, as, with the nicest tests, to discover no admixture of iron, is still magnetic.

M. Chaptal, in a very elaborate memoir, has investigated the difference between the acetous and the acetic acids. The

latter has been usually supposed to be the oxygenated acid; but our author found the difference owing to its possessing a smaller proportion of carbone. The acid, when combined with metals, is the acetous, and it becomes acetic by losing some of its carbone; and though, in general, the proportion of oxygen varies the quality of acids, yet this has no influence

on the acid of vinegar.

M. Humboldt's Experiments on Nitrous Gas, and its Combinations with Oxygen,' follow, It is difficult to give an adequate idea of this long and elaborate memoir. ject is, to ascertain the quantity of nitrous gas which will saturate one part of oxygen: this differs greatly from 1.8 as has been supposed. He finds that the sulphat of iron absorbs. wholly, the gas, leaving the azote; and, though the oxygenated muriatic acid leaves a larger proportion of azote, this arifes from what was combined with the hydrogen of the water to form the ammoniac. The general proportion of azote is, from .10 to .68; but, for chemical experiments, the best proportion is about .15. In mixing nitrous gas with oxygen, only fo much acid is formed as there is water to absorb it; so that the fize of the vessels, in which the mixture The rest remains is made, influences the quantity absorbed. n a gasseous state; and in shaking nitrous gas with distilled water, nitrate of ammoniac is formed, by the decomposition of the water in consequence of a double affinity. A mixture of .27 of oxygen, and .73 of azote, differs from atmospheric air, in this, that the azote of the latter, by a chemical attraction, hinders the oxygen from combining fo freely with nitrous gas as it feems to do in vital air; but, by means of fulphat of iron, what remains, after mixing nitrous and atmospheric airs, will show very exactly the quantity of vital air contained in any given quantity of the air that has been tried. In this way, affifted by the effects of the muriatic acid air, the difference between two airs, though confifting only of .003 part of oxygen, may be discovered.

As this advance in endiometry was made by discovering the solubility of the sulphat of iron in nitrous gas (a fact discovered by Priestley, though applied by Humboldt to the present purpose), in the sollowing memoir, he examines, with M. Vauquelin, the chemical changes that take place subsequent to the solution. In the receiver, from the double affinities, they sound nitrate of iron, sulphat of ammoniac, some sulphat of iron, not decomposed, with a proportion of water.

'M. Chevenix' Analysis of some Magnesian Stones' is very important, since their accurate analysis has not yet completely succeeded. His agents are, the malic acid, sulphurated hydrogenous gas, and the Prussian acid. The reasons for employing these depend on their action on magnesia, and their peculiar

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relation to the other component parts of magnetian stones, which cannot be abridged. The first analysis is that of tre-molite, which consists chiefly of carbonic acid, slint, and lime, containing only .18 of magnetia. The next is of turpentine, whose most copious ingredient is magnetia; the third is of white steatite, containing 60 of slint, and 28 of magnetia. Tale and mica consist almost wholly of slint and alumine; amianthus and asbestus of slint and magnetia. On the whole, these analyses feem to be conducted with great skill and ability.

The abstract of M. Proust's memoir, entitled Researches on Tin,' are confessedly a supplement to M. Pelletier's investigations, and relate to the different degrees of oxydation this metal admits of. An account of a peculiar viscous substance, found on a species of robinia, from thence called viscosa, sollows. It is very glutinous, without sinell or taste, approaching in its nature to resins, though scarcely soluble in alcohol. Its peculiar menstruum is æther. It unites with oils, but not with alkalies, and does not dry in the air. It burns freely,

leaving a very bulky cinder.

M. Fourcroy's very elaborate memoir on 'The Application tion of Pneumatic Chemistry to the Art of Healing, and the Medicinal Properties of oxygenated Substances,' is extremely interesting, though it will scarcely admit of an abstract. The action of oxygenated substances is that of an acrid stimulant; in reality it diffolves animal matter, imparting its oxygen, while the substance applied is deoxygenated. It is necessary, however, that the attraction of the component parts to the oxygen be not greater than that of the animal matter to which the substance is applied, as the action would be thus prevented. Therefore, in many instances, the union of even oxydated fubstances, whose attraction to oxygen is great, renders a medicine mild, or enables it to become an antidote. Thus bark diminishes the action of antimonial oxyds, &c. whole of this memoir deserves attention, particularly where the detached facts, discovered many years fince, contribute to elucidate and confirm later discoveries. M. Fourcroy, from these, predicts a revolution both in physiology and pathology.

The conclusion of M. Hassenfratz' third memoir on Areometry relates to the salino-grades, and contains many valuable

facts, reduced to tables, which we cannot abridge.

'The Report, made to the Royal Commercial Company at Madrid, of some new Productions lately discovered in Spain, is chiefly of local importance. In the province of Estremadura, is a gold mine; and it will occur to the reader, that, in early zeras, Spain was the country of gold, the Peru of the old world.

'M. Prieur's Letter on the Morning and Evening Dew,' contains an ingenious explanation of these phænomena, on

the principles of M. Monge, or rather of Le Roy and Hamilton; viz. the folution of water in its precipitation from it; but, in reviewing M. Monge's paper, in the Vth volume of the Annals, we showed that some additional principle was necessary, which we have often had occasion to mention.

In the conclusion of this volume, M. Scherer, among other miscellaneous information from England, describes the sub-fances from which Mr. Wedgwood's beautiful colours on

pottery are prepared.

The first article of the XXIXth volume offers a curious shield of inquiry; but, unfortunately, not pursued satisfacprily to its conclusion. It is entitled, 'Experiments on the Excrements of Fowls, compared with their Food, and Refexions on the Formation of Egg-shells.' The quantity of carbonate of lime, formed in the constitution of the hen, during the time of laying her eggs, is very confiderable, and frems to be deposited by the urine, or at least separated by the wisels of the kidneys. The urine of all herbivorous animals whels of the kidneys. contains carbonate of lime, without any calcareous phosphat, which is discharged with the seculent matter so contained, in a very small proportion, in the food. It is singular, that grain furnishes only from its ashes phosphat of line, though the falks, &c. afford, almost exclusively, carbonate of lime. In the excrements of both the cock and the hen there are both carbonate and phosphat of lime; and it is curious, that the excrements of the hen, even when there is such a drain of the lime from the continual production of eggs, contain a larger proportion of lime than those of the cock; but it ought to be remembered, that, at this time, the female requires two or three times as much nourishment as the male; and the carbonate of lime may, we know, be exhausted, as well as depofited in the intestine of the male, forming what is called the cock's egg; which, though not uncommon, M. Vauquelin never faw. A fimilar production is the barren egg, in the female, which contains the white only. The white matter dicharged by fowls is not cretaceous, as has been supposed, but albuminous.

On examining, chemically, oats, which forms the food of hens, they were found to yield phosphat of lime and flint, so that the formation of lime was the effect of the affimilation in the body of the hen; but from what principles it is derived cannot yet be ascertained. The quantity of lime in the oats, even supposing the flint changed into lime, will not furnish the quantity required for the production of the eggs. We have supposed, that the stones taken up by sowls with their food may supply the lime; but these animals prefer flint, though they take up, indiscriminately, every stone; nor have we any reason

to think the animal economy can change flint into lime. M. Vauquelin's hen should have had flint stones only.

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M. Foureroy, in a long memoir, has analysed the works of Mayow, and attempted to appreciate his real merit. He admits his great judgement and sagacity, but very properly opposes the too zealous claims of his editor and followers to the

honour of having anticipated Prietlley and Lavoisier.

Brugnatelli's XIVth volume of the Annali di Chemica will, as usual, furnish us with a few facts of importance, which we shall select. M. Volta's second and third letters on galvanism are designed to show, that the galvanic plates act as doublers of electricity, and this fluid becomes perceptible, in our author's method, to an electrometer of exquisite sensibility. Within these few months, however, we believe the same au. ther has succeeded in giving a very sensible shock by a galvanic battery, which, at this moment, furnishes the subject of much curious disquisition. It consists of circular plates of filver and zinc, placed alternately, with moistened cords, of the same diameter, interposed between the metals. About forty of each are usually employed, and it is only necessary for some person to form a communication between each extremity of the pile, to experience a severe and painful shock. M. Carradori shows, that oxygen is not the cause of the congelation of the white of an egg, when heated; and proves, that in this operation no oxygen is communicated externally, or derived from a decomposition of the albumen. Indeed, to boil an egg in its shell is a sufficient proof; but we think he has not fairly succeeded in the proof of no oxygen being derived from the albumen, though he has rendered it highly pro-We believe all coagulation is not attributed to oxygen, though this is incautiously afferted by Fourcroy. Mons thinks that, in hospitals, it may be sometimes necessary to reduce the quality of the air, as too much oxygen might injure patients in inflammatory diforders. Carbonic acid air would be the most copious gas, in the chambers of the fick, if it was not fixed by the ammoniacal air; fo that arresting it, by veffels of lime-water, only gives occasion to a superabundance of the latter, which is much more injurious. In health, he thinks, we form more water; in disease, more carbonic acid, He prefers, what we have formerly recommended, the fleam of water, to every other method of destroying noxious gas; and, to reduce the quality of airs, he advises occasionally the addition of carbonic acid air, and hydrogen; the first passed through water, and the second through oil; to precipitate, in the first case, the acid employed to separate the fixed air, and in the fecond, the carbone. M. Fabbroni recommends half filling a phial with .25 of minium, and .75 of muriatic acid, to

roduce an oxygenated acid for cleaning engravings. And M. Idini remarks, that fluid, as well as folid bodies, obey the whal laws of attraction and repulsion, in consequence of being electrified.

The lepidolite found in Sudermania, in Sweden, is described M. Beyer. Its analysis we have formerly noticed, and the

description we cannot abridge.

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A most interesting memoir is communicated by M. Humboldt, 'On the Absorption of Oxygen by fimple Earths, and is Influence on the Cultivation of the Ground.' It appears, har vegetable mould, when moistened, will decompose the atmosphere, and leave its azote almost wholly pure. To this the fertility obtained by fallowing is, with some justice, attributed by our author, as well as the niephitic vapours which to frequently and copiously issue from caverns when moist. This azote is mixed with some carbonic acid air; but is in other respects unaltered. Alumine and dry calcareous earth bonot change the purity of the air; but alumine, barytes, and fine, when moistened, absorb all the oxygen, without the separation of any other elastic sluid. These considerations would lead to very extensive speculations, which we cannot indulge in this place. M. Humboldt confiders fome of these, in which we need not, at present, follow him. It is necessary however to remark, that vegetable mould differs greatly in its chemical analysis; nor is its fertility always connected with the nature or the proportion of acidifiable bases discovered in it; but more frequently with their state of composition, and the facility with which they unite with oxygen, to form carbonic acid, which we long fince observed was the fertiliting principle, though derived from a variety of substances. One other observation we may add. Lumbrici and the larvæ of various meets live in the interstices of the ground, where the air is of an inferior quality. We have formerly observed, that these animals do not breathe impure air, but that they carefully extract all the oxygen from this injured air; and, when brought into pure air, really die from its excess of slimulus. polition of azote, by the decomposition of the air, explains, m our author's opinion, the formation of nitre; but, in all thele processes, the action of light has a considerable share, as M. Humboldt admits, and its influence has not yet been taken into the account. We may also remark, that, from these lacts, we can in some degree account for the infalubrity of the air in the neighbourhood of marshes, and they may lead to a discovery of the nature of miaimata.

An abstract of Guyton's memoir, On the Acid of Amber, follows. The best way of purifying the acid is to cohobate it repeatedly with nitrous acid, at a low heat, fince it is eafily ecomposed. In decomposing, however, its elements, as Scheele has alleged, form acetous acid, so that it is probable

of vegetable origin.

From the account of the XVih volume of Brugnatelli, Annali di Chimica, we shall, as usual, select some of the more important information. M. Carradori proves, that nocturn animals of prey can eafily live on vegetable substances, though averse to them; and it is therefore not true, that their gasting fluids have an affinity only with animal matters. He thows too, that frogs, and other amphibia, as well as fish, require air; at least they require that the water in which they live should be occasionally, or constantly, exposed to the atmosphere. Brugnatelli informs us, that the oxalic acid is not for certain a re-agent, in discovering lime, as has been supposed: and instances many mixtures, in which it will show no traces of lime, though it exist. He found that aurum fulminans, with phosphorus, would detonate by percussion alone, whe ther precipitated by pot-ash or soda. The editor observes, that the fulmination depends on the azote, communicated by the alkalies; and he advises, that they should be in a cause state, and added somewhat in excess. Mr. Smith supposes, that the fluid thrown out by the subcutaneous vessels, when a living animal has been wounded, refembles the gastric juice, and acts on vegetable and animal matters like the juices of the stomach. Thus pus is a kind of chyle, produced by solution of dead animal matter in a similar menstruum. But this idea is only founded on its power of coagulating milk, and diffolying animal substances, which, in M. Carradori's opinion, it possesses in common with various other fluids.

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Some of the information contained in a letter from professor Trommsdorf we may select. One of his friends has found lime crystallised in fine needles, so that his opinion of its being an atkaline substance is confirmed; but the hardness of mortar could only arise from such a crystallisation. His former pupil M. Juch, purifies phosphorus, by moistening powdered phosphorus with oxygenated muriatic acid, and re-casting it in We have found phosphorus become of a waxy whiteness by being kept in a dark place. He prepares a martial æther, by digesting the latter, on a red oxyd of iron; and thinks the zoonic the fame with the febacic acid.

The history of the Institute at Cairo, and its communications, some of which we meet with in different parts of this work, have already been the subjects of our remarks, in the The new experiments on the supposed English translation. conversion of water into azotic gas, by MM. Deiman Paets, &c. are defigned only to answer the doubts and objections of M. Wurzer, and are scarcely capable of analysis.

M. Dumas has translated Dr. Reid's Treatise on the Philifis Pulmonalis, and has added the history of two species of

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brought on by spalmodic coughs, dry asthma, &c. the other that owing to debility of the lungs. These he has attempted to imitate, by confining dogs in vital and fixed airs. The lungs: the sist with every mark of inflammation, the other with proofs of the lungs; but neither with the characteristic symptoms of phthiss.

The abstract of M. Christian's work, On the Fabrication of Alum in the Department of Ourte,' we need not abridge. M. Vanquelin's observations on some of the properties of frontian and barytes, deferve notice. His object was to afcertain how far their refemblance to alkalies, observed by some chemists, was well founded. In his experiments, in relation to fint and alumine, they acted nearly as alkalies, by uniting with, and dividing them, fo as to render them foluble even in the weakest acids. They were equally useful in the analysis of hard stones, which acids will not touch. So powerful is this action, what, in decomposing nitrats of barytes and stronfiant in earther crucibles, it is megehany to guard-against too great purity in the earths, and too great activity in the fire, left the materials of the crucibles should be dissolved. The solution disthe crucible occasioned the barytes to come out in an incluble frit, and formerly led to the addition of charcoal, to prevent this appearance. These earths should therefore, in this author's and M. Foureroy's opinion, be classed with the alkalineshibstances. I billoog with darly most

MM. Vauquelin and Fourcroy have communicated their Experiments on Artificial Cold, of 40° below o of Reaumur's thermometer. Lowitz Experiments in the XXIId volume of the Annals, formerly noticed, served for the balis of our authors' refearches. These are now confirmed, and some additional phoenomena were observed. Mercury may be frozen any quantity, if, like the Russian chemist, we throw it the mixture; but when congealed in a vessel, it crystalthes readily, forming octaedral crystals. Ammoniac, flowly cooled, crystallifes; if cooled rapidly, it refembles glue, and loses its smell. Æther freezes and crystallises regularly at 350 below o, but alcohol is scarcely fixed at that degree; so that ether is of a different nature, and cannot be employed as a measure of extreme cold. M.M. Van Mons and Guyton have added some important facts to the history of cold. They were enabled to freeze every fluid, and after being exposed to excessive cold, gold, filver, tin, and lead, lost their malleabi-

M. Weller describes some particular substances sound in animal matter, treated by nitrous acid. The chief substance discovered, was a yellow bitter salt, soluble in water

and alcohol, crystallising in octoedra, whose two opposite points are truncated. This salt was found in silk, and exploded like gunpowder; it was found too in animal matter of a different kind, and is styled, by our author, amer, from its bitterness; he thinks it an ingredient in bile; but, if we mistake not, Mr. Higgins of Dublin discovered a similar substance in the blood, many years since.

M. Girtanner formerly supposed that he had discovered the radical of the muriatic acid, which, in his opinion, consisted in hydrogen and oxygen; M. Tessaert examines his experiments, and thinks them not only inaccurate, but inconclusive

M. Girtanner is lately dead.

M. Guyton's new experiments on the fufibility of mixed earths, in confequence of their mutual actions, contain only fome miscellaneous sacts, incapable of abridgement. M. Brugnatelli, in a miscellaneous letter, mentions his having procured a yellow refin from indigo, of which the indigo yields near

half its weight.

The XXXth volume of this collection begins with the continuation of the extracts from Crell's Annals, which furnish nothing of importance to detain us. The abstract of a memoir by M. Haussman, entitled 'Essays on Dyeing by Solutions of Tin, and the coloured Oxyds of this Metal', is highly curious, but, from the miscellaneous nature of the facts, incapable of any further abridgement.

M. Mayer's memoir, 'on the different Capacities of Woods to conduct Heat, from which their specific Heat may be deduced,' is very elaborate and useful. We shall add the sollowing comparison of the specific heats, drawn from their conducting power, and from direct experiment. The other

tables are too extensive for our limits, a viscout of a and A a

Specific heat deduced from the conducting power.	By direct experiment.	Difference.
Fir, 0.53		0.07
Linden-tree, 0.62	the state of the s	
Elm, 0.47 Pear-tree, 0.50		And the second s

In, and M. Giobert, relates to the calculi vesicæ, vast numbers of which have been sent by the latter to assist the French chemists in their very extensive researches on this subject. Some parts of M. Fourcroy's letter we shall translate.

It is necessary to divide the calculi to compare the strata. I have long since learnt, that the exterior of a calculus gives no information respecting its internal coats, unless this coat is composed wholly of uric acid, and is of the colour of

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wood; in which case its nature is uniform, and the nucleus of the mulberry kind. In 300 kinds of calculi hitherto known to us, the phosphats are never covered with urie acid, though they cover this acid as well as the mulberry nucleus. We have never met with the phosphat of lime alone, but always with an ammoniaco-magnefian phosphat; nor with a pure magnetian phosphat; without ammonial This triple falt is that which is almost always deposited on extraneous bodies, introduced into the bladder, often mixed with phosphat of lime **** Urat of ammonia is often found in the same circumstances as the unic acid; more rarely alone, and fometimes only in little polyangular calculi; it is frequently interpoled between alternate strata of earthy phosphats or pure uric acid. Oxalate of lime is never detected in any confiderable quantity between other calculous matters. It is constantly found in the centre of earthy phosphats, strata of unic acid, or alone, forming the unequal mammelated calculi, styled the mori (mulberry) form," *** We have examined only one gouty calculus, and it contained urat of foda instead of phosphat of lime, its supposed base.

M. Vauquelin's memoir on the Method of analyting Stones, is an excellent one, and he has given examples of his method in the analytis of different fossils, but this memoir

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cannot be abridged.

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M. Guyton adds the analysis of a quartz, presenting a crystallisation of metastatic spar, commonly called dent de co-chon (hog's tooth). In this instance, the nature of the stone is not ascertained, as usual, by the form of the crystals. These show it to be a calcareous spar, but it is in reality a quartz, and the variety seems, in our author's opinion, owing to its having crystallised in a mould of some other substance in this form.

grapes, and the management of vines, proposed by M. Chaptal, are replied to in this and the following number; but these

are subjects of local importance only susto quen a to outso

The mercurial fyrup of belet is differently prepared, and not always with skill; the mercury, in this syrup; is united with the nitrous acid; but sometimes corrosive sublimate is employed. Our author proposes to add to 489.146 grammes of syrup; 5.413 of nitrat of mercury; and 1.910 of nitric æther. Whatever be the value of the gramme, the proportion will remain the same.

The acid of vetches is analysed by M. Dispan, who styles it the ciceric acid, and thinks it different from the oxalle; yet even, from his own experiments, it approaches very nearly

the oxalic acid. To steep the naw pro-

M. Guyton has communicated some very valuable 'Researches, APP. Vol. XXIX. New ARR. 2 N

on the colouring Matter of Vegetable Juices, the Change produced by Tin, and other Metallic Substances, with a new Method of forming Lacs more intenfely and folidly coloured than usual." He thinks that the red colour of fruits is owing to the re-action of their own acid on their colouring matters, and that tin, lead, bismuth, antimony, zinc, and iron, in reviving or restoring the colour of violets, only take up the acid which gave the red hue. The effect is most rapid and complete with iron, He finds that the acid, which produces the redness. does not proceed from what is contained in the green part of the fruit, but is involved in the colouring matter itself and though fometimes to modified, as to relift the most active so agents, may be reduced to a flate in which it will be affect. ed by them; fo that it is effentially the fame. The metallic oxyds are not all equally adapted to raife and fix the colour. for some which act quickly on substances of this kind, retain it but feebly; the oxyd of tungsten particularly forms lace of a permanent colour for painters, where they are not exposed to any alkaline substance; and as a dye for filk, if foap be not

applied to it.

Van Mons' extracts from De Kasteleyn, contain various articles of value, of which we can only felect the most interesting and important. The Brunswick green, M. Kasteleyn informs us, is prepared by moistening sheets of copper, with muriat of ammonia, in close vessels. The metal separates the acid, and dissolves in it, and is again precipitated by the ammonia-The precipitate is washed and dried; the remaining liquor, with that employed in the first washing, by again saturating it with fall ammoniac, may be used a second time. M. Kasteleyn also observed, that, in a solution of muriat of potash and carbonat of soda, either falt may be made to crystallife by a difference of temperature: below 15° of Reaumur, the muriat crystallifes; above it the carbonat. Van Mons has observed that these two salts, at different temperatures, change their bases: pale martial flowers of sal aminoniae became of a deep orange by exposure to folar light. Van Mons proposes to make an antimonial Ethiops by precipitating an alkaline hydro-fulphur of antimony by nitrat of mercury. The first is made by boiling 12 parts of crude antimony, 6 parts of caustic pot-ash, with 3 of sulphur; but, as the preparation is ufeless, we need not enlarge on it, except as a chemical fact. Van Mons adds various other proofs to those formerly alleged, that the sulphurie acid is never oxygenated; when it appears to be fo, the feemingly superabundant oxygen is furnished by a decomposition of the acid. He proposes to prepare a cheap bleaching liquor, by digetting three parts of muriatic acid with one part of oxyd of manganess and precipitating the metal that is diffolved by fode. Van Mons recommends a new method of purifying gum reDescription of new Machines of the Teylerian Foundation. 515

fins, by triturating them with water, so as to form a milk, and adding a little gum of the cherry-tree, to combine with any excess of resin; if with cotton, there is any mixture of wool, it may be discovered by the oxygenated muriatic acid, which whitens the cotton, and gives a yellow hue to wool. In this way, professor Brugman distinguishes medulary sub-stance from that of nerves. It is a curious fact, that two liquids, instantly on mixing, become solid. These are concentrated sulphuric acid, and a strong solution of muriat of lime.

M. Monge has published his lectures on descriptive geometry, which depend much on the plates; nor can we appreciate

their nature or utility from the account before us.

M. Fabbroni, in his letter to Van Mons, describes a new method of preparing martial Ethiops; alcohol he thinks is not formally contained in spirit of wine; for his experiments, which discover right of spirit added to wine, show no appearance of alcohol unless it be added. Another paradox is subjoined, that fermentation may be made to take place in the Torricellian vacuum. This author has published 'L'Arte di far il Vino' at Florence in 1788, in which these and some other curious facts are contained.

M. Ventenat's view of the vegetable kingdom, after the system of Justieu, is a botanical work of some importance; but its analysis is not properly a part of the present subject: we may probably return to it. M. Bartholdi's analysis of the bark of the white willow is a very uninteresting account of an useless substance; and M. Lomet's description of the preparation of crayons from a red iron ore is equally trisling; many artists make their own crayons more successfully.

M. Portal, in his new communication respecting Belet's mercurial syrup, admits the substitution of corrosive sublimate for nitrat of mercury, and recommends it, joined with anti-scorbutic juices in rickets, scrosula, and scrosulous phthiss.

M. Scherer's account of the preparation of fugar from the beta cicla (not vulgaris' as he afferts), offers nothing new.

M. Vauquelin's 'Effayers Manuel's is next analysed, and it appears to be a work of considerable value, but incapable of farther abridgement; and the volume concludes with a defeription of some additions to Teyler's new machine, which we shall examine in a separate article.

Description de quelques Appareils Nouveaux, ou Perfectionnes de la Fondation Teylerienne; et des Experiences faites avec ces Appareils. Par M. Van Marum. 4to.

Description of some new or improved Machines of the Teylerian Foundation; and of the Experiments made with them.

THIS volume has been long before us, but we have delayed an account of it, despairing, from the want of plates, 2 N 2

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with which it is copiously furnished, to convey any idea of the machines. The same difficulty we still feel; but shall no longer hesitate, as the experiments, at least, are of importance, and we shall endeavour to give the best idea, in our power, of the apparatus with which they are made.

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The legacy, left by Teyler, for increasing natural knowledge, has been placed in judicious hands, and it has occafioned the accumulation of greater electrical powers than
were ever before collected by human art. We have noticed
the progressive steps of Van Marum and his associates, in
these attempts, with great anxiety, which has made us more
anxious to neglect no longer filling up the chasm. The
delay was not however wholly our own; for, though the
date of the publication is 1798, much of it was done in

Onr author's chief object was to repeat, on a large feale, but with fufficient precision and convenience, the brilliant experiments of Lavoisier, the foundation of the pneumatio doctrines of modern chemistry; doctrines now well established, but which will receive no little support from the known integrity and accuracy of Van Marum. The present work is not however a systematic one. It is comprised in eleven chapters, some of which have been already published, as it was necessary, by the statutes, that they should be inferted in the Teylerian Memoirs. The two first chapters contain a description of his gasometer, already published; and, as it is difficult to procure large receivers fo large as those of his former gasometers, the third chapter contains an account of the modification of these instruments, so as to adapt them to receivers of a less fize. These subjects need curial tyrup, against the substitution of corrotau mistal ton

The fourth chapter contains "an Account of an Apparatus for the Formation of Phosphoric Acid, by the Combustion of Phosphorus." As our author could not accurately close the glass halloon described by Lavoisier, he constructed one like that employed in Lavoisier's process of the composition of water. All intercourse with the external air was flut out and the oxygenous gas deprived of its water, by paffing over an alkaline falt, previously raised to a red heat for an hour. In these experiments, Van Marum usually burnt 60 grains of phosphorus; and, in calculating in the manner pointed out by Lavoilier, the quantity produced, he found it to be very nearly the fun of the weights of the phosphorus and the gas employed. The author here describes a singular experiment, by which he obtained a fpontaneous inflammation of photphorus, under a pneumatic receiver, wholly exhaulted, without the access of any heat. This we noticed in a review of one of the early volumes of the Annales de Chymie, where it was inferted; and it is justly remarked by our author, that Description of new Machines of the Teylerian Foundation, 517.

if the German chemists, who have opposed the new system, had attended to this experiment, they would have found in it a sufficient resutation of their arguments and experiments, against the new system, drawn from the phosphorus appear-

ing luminous in azotic gas.

The fifth chapter contains a description of the apparatus, designed to prove that the carbonic acid is really the result of the combustion of carbon with oxygen gas, and that the diminution of weight, in both, is equal to the phosphoric acid formed in the process. The apparatus is an improvement of that of Lavoisier, for the same purpose. The furnace, as toits principal part, is of plate copper, and of a conical form. At the bottom is a grate, which supports the coal, and the ashes are collected in a close cavity below. The combustion is excited by a red hot wire, introduced through a tube, made for two purposes, and is fed by oxygenous gas furnished by a gasometer. The carbonic acid, thus formed, is deposited in a feries of balloons filled with alkali; and the air, extricated by combustion, collected in a particular gasometer, after having passed through successive intermediate vessels. All the parts are connected by flexible tubes, or others fitted by ground stopples or secured by screws, so that lutes are unnecessary. By regulating the admission of pure air, and of course the combustion, the refrigeration which Lavoisier was obliged to employ is rendered unnecessary.

In the fixth chapter the author describes his improvement of Lavoilier's apparatus, for the combustion of oils, which is effected by a kind of Argand's lamp, burnt by means of pure air, from a gasometer. The air is dried, by passing through alkall, and the water, after condensation, secured in a particular receiver. The lamp is lighted by a hot iron, applied to the circular wick, on which a bit of phosphorus has been previoully placed; and when the experiment has been correctly made, the sum of the weights of the water and the acid is equal to that of the oil burnt, and the air united with it. A more compendious method is, to separate the hydrogenous gas. from the oil, by making a paste of quick lime, by means of oil. When this is exposed to heat, carbonated hydrogenous. gas is separated. This gas is introduced into a balloon, and burnt with oxygen, and, by means of lime and alkali, the proportion of the newly formed fubstances is separately ascertain-The author thus obtains the proportions of carbone and hydrogen in this gas. This is of more importance, as he thinks the advantages derived from inspiring this gas, in dif-

cases, depends on the proportion of carbon.

The fixth chapter is peculiarly interesting, as it contains experiments for decomposing alcohol, by means of heat and metals, which, when iron and copper are employed, produce

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a remarkable composition of carbon with both. This is the finery cinder of Priestley, obtained by exposing copper red-hot to the vapour of alcohol. He obtained similar substances, with other metals, to which he has given the generic name of metallic carburs. Van Marum repeated the experiments, to ascertain, if possible, more exactly, the nature of carbon, though in this last he failed. Copper-wire, exposed to the vapour of alcohol, gained considerably in weight, but not in so great a degree as in Dr. Priestley's experiments; which may be owing to the greater heat employed by the latter. The production was hydrogenous gas, and the copper was wholly reduced to a cinder.

With iron the increase of weight was less, and not, as in copper, at the part which had sustained the red heat, but where the heat had only given the deep blue colour. Van Marum did not find silver affected by the vapour in the same way, though the experiment succeeded with Dr. Priestley. He employed his silver unadulterated, and subjected it to a considerable degree of heat. Lead, tin, zinc, and bismuth, did not produce any cinder; and with antimony, cobalt, and manganese, he was equally unsuccessful, though they all furnished

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hydrogen of nearly the fame weight.

Our author next examined this cinder, as procured from copper, and put 40 grains in a particular apparatus, with 140 grains of oxygenous gas, confined by mercury. It was lighted by a red-hot iron, affifted by a minute bit of phosphorus, and burnt freely, like charcoal, except that the whole was not confumed. The gas produced was absorbed by alkali, and was therefore carbonic acid gas, in the formation of which 84 cubic inches of oxygen were employed: 56 remained. What was left, after the burning, diffolved in nitric acid, and appeared to be copper not quite changed to a cinder. This production then is a true carbur of copper, fimilar to the carbur of iron or plombago, obtained from iron, by the fame treatment. The quanity of carbon, however, united with the copper, is much less than the alcohol must have furnished; and, on examination, it appears that a part of it is combined with the hydrogen, which is of consequence more heavy than usual, and the rest is deposited on the surface of the water, and the fides of the vessels and tubes. Our author thinks these experiments not capable of ascertaining the exact proportion of the component parts of alcohol, but only of showing its nature, and prefers his apparatus to that of Lavoisier, as less liable to explofions.

The eighth chapter contains a description of a simple apparatus, for a public course, to show the oxydation of mercury. This it very clearly demonstrates; and mercury, tin, and lead, in oxydating, are found to gain, very exactly, as

Description of new Machines of the Teylerian Foundation. 319 much in weight as there is diminished in the weight of the

aumonia again becomes a gast and file vet nearingym In the ninth chapter the author describes an apparatus, successfully employed, to show the combustion of iron in oxygene ous gas, fimilar to Dr. Ingenhouz' experimente Our author's instrument is very convenient, and the operator avoids many of the inconveniences to which the apparatus of that philosopher was subject. The correspondence between the weight, gained by the metal, and lost by the air, fully proved the

pneumatic theory.

The next object was to show, more conveniently, the vaporifation of water, on removing the pressure of the atmowhere, and it is the subject of the tenth chapter. Our author's apparatus was very simple, and it appeared that, in proportion to the increase of temperature, the conversion of the liquid into vapour was longer, and acted more forcibly on the barometer: the pressure is still greater, the more volatile the fluid which is employed. Thus, at a temperature of 56° of Fahrenheit's thermometer, water forming vapours funk the mercury a of an inch; alcohol 1.5; ammonia 7.2; fulphuric ether 12.5. These vapours are not however permanent, for they immediately become fluid, on restoring the pressure of the atmos fphere. the old to law it

The last machine described in the eleventh chapter is a new air pump of a more simple contrivance than usual, which makes a more complete vacuum, and may be employed alfo in condensing the air. Our author highly commends Mr. Cuthbertson's air pump, and thinks it produces a greater vacuum than any other which preceded it; but this property, he observes, does not continue, that it is, in other respects, very complicated, and exhausts but flowly, on account of the smallness of the body of the pumps, and the little play of the pistons.

Our author's pump has but one cylinder, of a large fize, fo contrived, that, when the piston is at its lowest point, it touches accurately the bottom of the pump. By a very simple contrivance, he opens and shuts the cock which communicates from the external to the internal parts, by a fort of pedal eafily managed. This pump, when well cleaned and perfectly dry, will exhaust a receiver of 906 cubic inches, so completely that the mercury finks to 12 of an inch; and in a receiver of from 50 to 100 cubic inches, the mercury is only supported at 1 of an inch. He next describes the condensing part, with a fingular experiment made on ammoniacal gas. This was found more compressible than common air; and, when the tube containing the latter was reduced if of its original capacity, the other, containing the gas, was almost wholly alled, the ammoniacal air having been compelled to refume

ammonia again becomes a gas, and fills very nearly the former space. We greatly regret that a thermometer did not make a part of this apparatus. From the wide and established reputation of the author, from the scale on which his experiments were made, and his known accuracy and integrity in observing and reporting the results, we consider this work as the key-stone of the vast arch founded indeed in this country, but continued and completed on the continent.

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Les Géorgiques de Virgile, traduites en Vers Français par De Lille. Edition à laquelle on a joint le Texte Latin, avec les Notes et les Variantes. Paris.

Virgil's Georgics. Translated into French Verse, by M. De Lille. With Plates. 8vo. 11. 1s. Imported by Dulau and Co.

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AGRICULTURE, till of late years, has been a science infinitely less attended to in France than in England. Under the old regime it was conceived a degrading employment, and the health and simplicity of the fields were relinquished for the fplendour and corruption of the court. On this account the Georgics of Virgil, the first rural poem that ever was compiled in any language, has hitherto met with a far colder reception in the former country than in the latter; and has lately been altogether abandoned as a work devoid of interest, full of errors, written without method, and upon a fubject too low for the genius of poetry to be capable of elevating it. The times, however, are in this respect happily changed. Agriculture in France has began to be more justly appreciated: the life of primæval innocence is no longer regarded as unworthy and degrading; the politician has calculated its benefits to the state, and the philosopher demonstrated it to combine a larger proportion of mental and corporeal felicity than any other mode of existence in which mankind can engage. M. de Lille, who has already produced the first didactic poem upon the picturesque beauty of rural scenery that France has ever witnessed, a poem which was written contemporarily with The English Garden' of the late venerable Mason, animated with the same genius, and inflamed, in its episodes, with the same political spirit, and which has fince received the honour of two diffinct English versions, has not been inattentive to this change of character and opinion among his countrymen; and, apprehending the present æra to be propitious to such an

undertaking, has once more ventured upon introducing the Georgics of Virgil to their notice by a new and very elegant version, accompanied with the original text, together with a variety of plates and notes. The appendix and notes we rejoice to meet with; we shall occasionally take the liberty of animadverting upon them in the fequel of this critique, and shall have occasion to object to the absence of such an accompaniment, as a positive defect in a work of this description, in our account of Mr. Sotheby's English version of the same poem. As to the plates, which are engraved by De Longueil, from defigns of Casanova, they are, we think, the least valuable part of the publication: the subjects are not well selected; there is no prominence of character among the figures introduced; and the whole is confused, insipid, and devoid of interest. They may, perhaps, appear pretty to the multitude, but they cannot be applauded by the man of tafte. They are five in number, the first forming a vignette to the title-page, and the remaining four attached to the commencement of the four books of which the Georgics confist. The text does not differ very effentially from the Dauphin edition; the paper is woven, and both this and the type highly elegant and captiyating.

The Georgics of Virgil, though they have never been a favourite poem with the people of France, have, nevertheless, undergone a greater variety of translations among them than have even appeared in our language. Of these some have been in verse; but by far the greater number, and the most meritorious, have followed the general rule of French interpreters, and been exhibited in inflated profe. Of the transpositions in metre, that of the abbé de Marolles is the first, in order of time, which has ever fallen beneath our notice. The abbé was a worthy man, but an unfortunate translator in every instance; and his verfion of Virgil, like that of Lucretius, is, we are afraid, now seldom to be met with but in the decoration of old trunks. He was fucceeded by Segrais, Martin, and Pinchene: of thefe junior attempts, that of Segrais is, in our judgement, preferable to the other two, though it is scarcely entitled to the praise of mediocrity. As to Martin, his very name is now nearly forgotten, while that of Pinchene, though the nephew of De Voiture, lives only in the fatyric verses of Boileau, who has damned him to everlasting same' for the wretchedness of his poetical effusions. With respect to the prose translators, they form a more numerous corps still; but it would be useless to run through their catalogue. We shall only observe that the vertions of most eminence are those of Catrou, the four Profelfors, and the abbé Desfontaines; and we unite with M. de Lille in giving the preference to the laft.

From this curfory retrospect it is obvious there has been now thing hitherto in the French language worthy of the genius and talents of the Roman bard; that the ground the present author has selected for himself may be considered as unoccupied, and that he is as happy in the choice of his subject as in

the period of its appearance, at only a month pour sources its

- The poem is preceded by a long preliminary discourse; the principal topic of which is the woeful poverty, infipidity, debility, and want of harmonious combinations of his native tongue, and confequently the tremendous difficulties he had to encounter in the translation that follows. This strain of lamentation is indulged in to the utmost degree of exaggeration; and however it might have been allowed to fuch transpoters as the abbé De Marolles, or the baron De Coutures, it is totally unworthy of a man possessed of the powers of M. de Lille, While perusing this passage, we could not avoid objecting to it as libellous, and actually disproved, by recalling to our recollection the very elegant and masterly poem of Les Jardins, lately published by the author himself, the Horatian compress. bility of Boileau, the nervous spirit of Corneille, and the chafte simplicity of Racine; when we found him immediately afterwards bursting forth into an exclamation of a different kind altogether. 'Nevertheless,' says he, p. 43, 'I dare asfert that I have often believed all these difficulties might be overcome by a truly great writer, who would confent to the degradation of translating. If climate, government, manners, possess, as I have already contended, an influence over languages, the genius of fuch a man possesses an influence as large: it is he who chastifes them and binds them to his will, who recals terms that are obsolete, naturalises those that are new, transports the treasures of one language into another, approximates their distance, compels them, in a manner, to sympathife, renders the most barren idiom fertile, the rudest harmonious, who enriches its poverty, strengthens its weaknels, confirms its timidity, employs all its refources with advantage, creates resources that were heretofore unknown, makes it the vocabulary of all places, of all times, of all arts. And to corroborate this extensive position, he immediately instances examples of its truth from the very poets whose names we have just enumerated; concluding, in p. 46, that the French language, 'managed with address, and corrected by labour, is able to descend, without vulgarity, to the most common objects, to elevate itself, without hardihood, to the most exalted, and to paint almost every thing by images, by founds, by cadences: and it is in this persuasion, adds he, that I have hazarded a translation of the Georgics. 2000 2011

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Within the boundary of this discourse the author takes a curfory review of feveral French and English poets who have exercised their powers upon rural subjects. Of the latter he mentions only Milton and Thomson, to each of whom he pays a merited compliment. But in a comparison which he afterwards delineates between this latter poet and Virgil, we cannot accede to his affertion that the English bard is deficient in order and transition, that he has no object in view, and that whenever he imitates Virgil, he imitates him amis. The order and connexion of both poets is that of the seasons, and from the nature of their undertakings there can be no other; the transitions of Thomson, like those of Virgil, arise in every instance from the natural subject discussed: his object, though not the same as that of the Roman bard, is certainly as perspicuous; the one is definite precept, the other picturesque delineation; and as to his unhappy powers of imitation, we be-lieve none of the translators of the Georgics into our own language have so felicitously expressed the ideas of their great prototype as Thomson himself, in every instance in which he has exercised his imitative powers. And we now particularly refer to the close of his Autumn, in which he has literally copied the Roman bard's exquisite picture of the pleasures of a rural life, commencing thus:

Oh! knew he but his happiness, of men

The happiest he! who, far from public rage,

Deep in the vale, with a choice few retired,

Drinks the pure pleasures of the rural life.

The version of M. de Lille opens with spirit. Like Warton, he infifts upon the propriety of regarding the clariffima mundi lumina as distinct personages from liber et alma Ceres; and the well known passage in Varro is appealed to by the French as well as by the English translator. 'Some interpreters,' fays he, ' have believed that by Bacchus and Ceres, Virgil here understands the sun and moon; a paradox which the commentators, however, can only advance, to have an opportunity of detailing their erudition.' this respect we think our author unnecessarily severe: thall have occasion to offer our opinion upon the subject in our review of Mr. Sotheby's version, and shall there venture to affert that the present tenet is erroneous. In this opening of the poem we were struck with the total omisfion of the name of Mæcenas, to whom it is directly ad-dressed in the second verse of the original. From whence this omission proceeds we are totally at a loss to determine. Mæcenas existed in the same kind of relation to Virgil that Bolingbroke did to Pope, in the conjoint character of friend and

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patron; and Pope was not more stimulated by the latter to compile his Essay on Man, than Virgil was by the former to compose his Georgics. Both wrote their inimitable poems at the particular request of their patrons, and both invoked them in their commencement. But what would M. de Lille think of the accuracy of the abbe Duresnel, who has translated considerably from Pope with appropriate spirit, if, in a version of his Essay on Man, he had omitted the celebrated invocation to the honourable Mr. St. John, which occurs in the sirst line of its commencement; but which does not give more animation to it than the name of Mæcenas to the commencement of the Georgics?

Quique novas alitis non ullo semine fruges. B. i. v. 22.

· Qui de nos fruits heureux nourrissez les prémices.'

We prefer this lection to the common reading nonnullo; and admit the justice of our author's observation, that the poet is here speaking of those plants which were supposed to spring up spontaneously, without the ordinary process of sowing; a process which refers exclusively to those enumerated in the verse ensuing. The contrast resulting from this interpretation

produces at least an additional beauty.

B. i. v. 212. - cereale papaver. The note appended to explain the meaning of the adjective tereals is unnecessary; and we might retort the charge that it was introduced for the purpose of detailing our author's erudition, Why,' fays he, 'is the term cereale, " of or belonging to Ceres," applied to the poppy? The commentators have tormented themselves for the meaning of the word. The poppy was accustomed to be mixed, among the ancients, with their wheat, in the formation of bread, and hence the statues of Ceres were adorned with it. This, as it appears to me, is the most natural explanation of the word cereale.' A schoolboy would not have travelled fo far, but would, nevertheless, have given one more natural still. The first corn-field he passed through, with his fatchel upon his shoulders, would have shown him a profusion of poppies springing up with the wheat, and colouring the whole scene with the bright and elegant tincture of its flowers. As he passed on, he would find that this union of corn and poppy-flowers was common to every field; and he would require no other interpretation to explain to him the beauty of the expression cereale papaver. Our author should not have omitted this appropriate character in his version.

- I Ipse pater, mediâ nimborum, in noche, conuscâ, &c. 100 han basiti lo refortate tatojace opi ai 1000 B.i.s v. 328 al.

Our poet has confessedly bestowed much labour upon this bold and energetic passage, and he has considerably succeeded. We transcribe it with much pleasure.

Dans cette nuit affreuse, environné d'éclairs,

Le roi des dieux s'assied sur le trône des airs:

La terre tremble au loin sous son maître qui tonne :

Les animaux ont sui; l'homme éperdu frissonne;

L'univers ébranlé s'épouvante le dieu,

D'un bras étincelant dardant un trait de seu,

De ces monts si souvent mutilés par la soudre,

De Rhodope ou d'Athos met les rochers en poudre,

Et leur sommet brisé vole en éclats sumans:

Le vent croît, l'air frémit d'horribles sissemens:

Le vent croît, l'air frémit d'horribles sissemens:

La rive au loin gémit, et les bois lui repondent.' P. 95.

In the fourth line of the above extract, the expression less animaux ont fui retains, most happily, all the vigour and vivacity of the original fugere feræ. The tameness of Dryden's version of this spirited picture is well known,

And flying beafts in forests feek abode.

Our author does not appear to be acquainted with any other English translation of the Georgics than this of Dryden. Had he ever been favoured with a perusal of Dr. Warton's, we are persuaded that his own liberality would have induced him, while exposing in this place the insipidity of one of our translators, to have contrasted it with the force and effect of another, who has completely anticipated him both in his remark upon the vivacity of this passage in the Latin text, and of the desciency of Dryden's version of it. In Warton it occurs thus, v. 398.

The nations thrink appalled—the beafts are fled.

The line that follows is peculiarly in favour with our author; and he acknowledges he has laboured it with extreme diligence. We cannot nevertheless allow it the merit for which he entreats. L'univers ébranlé does not occur in the Latin text: it is a needless iteration of la terre tremble; and as to the hemistich which he has had the hardihood to introduce into this verse as an imitation of the abrupt cadence of the original, to our ears it does not altogether answer the purpose, and sew French critics, we apprehend, will pardon the unparalleled license he has thus taken.

l'remblance d'dur ils wors, la ropieni deménage;

Ad terras, immane sonat per saxa, nec ipso Monte minor procumbit, &c. B. iii. 239. · Tel, par un pli leger ridant le sein de l'onde, ou mo Un flor de loin blanchit, s'alonge, s'enfle et gronde: Soudain le mont liquide, élevé dans les airs, and all Retombe: un noir limon bouilloane sur les mers,'

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Down's xueib seb in P. 239. We have felected this passage on two accounts; first, because of the appropriate force and spirit of the terms employed in the vertion; and, secondly, because it presents us with a mechanical beauty, in the abrupt cadence of the last line. which our author has in vain attempted, in our opinion, in the passage last quoted; a beauty which we thus see the French language, in the hands of a poet of M. de Lille's ability, is capable of exhibiting, without the introduction of unjustifiable and anomalous licenses. Were we disposed to raise any objection to this elegant extract, it would be that it is rather too paraphrastic.

But we dare not indulge in the length of criticism to which this unrivalled poet of France naturally stimulates us. Our critique on Mr. Sotheby's translation of the same poetical essay is already written; and having in this extracted a few complete fentences from the original as well as the English interpretation, we shall now present our readers with M. de Lille's version of two or three of the same, that they may be the better enabled to estimate the comparative merit of the

French and English performance.

The following is M. de Lille's description of the figns of an approaching tempest.

laters, to have contraffed it with Quelquefois, de l'orage avant-coureur brûlant, Des cieux se précipite un aftre étincelant, paviv out noul Et dans le sein des nuits, qu'il rend encor plus sombres, Traîne de longs éclairs qui fillonnent les ombres; Tantôt on voit dans l'air des feuilles voltiger, Et la plume en tournant fur les ondes nager. Si l'éclair brille au nord, de l'Eure et de Zephyre Si la foudre en éclats ébranle au loin l'empire, Alors, ô laboureur, crains les torrens des cieux Nochers, ployez la voile, et redoublez vos vœux. Que dis-je? tout prédit l'approche des orages: Nul, sans être averti, n'éprouva leurs rayages. Déja l'arc éclatant qu' Iris trace dans l'air, Boit les feux du foleil et les eaux de la mer; La grue, avec effroi s'élançant des vallées, Fuit ces noires vapeurs de la terre exhalées; Le taureau hume l'air par ses larges nazeaux; La grenouille se plaint au fond de ses roseaux; L'hirondelle en volant effleure le rivage; Tremblante pour ses œufs, la fourmi déménage;

De Lille's Translation of Virgil's Georgies. Le des affreux corbeaux les noires légions hond bendent l'air qui frémit fous leurs long bataillons. Vois les oiseaux des mers, et ceux que les prairies so Nourrissent près des eaux sur des rives fleuries; De leur séjour humide on les voit s'approcher, Offrir leur tête aux flots qui battent le rocher, Promener fur les eaux leur troupe vagabonde, Se plonger dans leur sein, reparastre sur l'onde, moon replanger encore, et par cent jeux divers Annoncer les torrens suspendus dans les airs. Scule errante à pas lents fur l'aride rivage, La corneille enrouée appelle aussi l'orage. Le soir, la jeune fille, en tournant son fuseau, Tire encor de sa lampe un presage nouveau, Lorsque la mèche en seu, dont la clarté s'émousse,

Se couvre en peullant de noirs flocons de mousse.

In the following verse of this passage, it and

des affreux corbeaux les noires légions,

we cannot but strongly object to the use of the term corbeaux, as it not only occurs in absolute inconsistency with the natural history of the corbeau or raven, which is a solitary and not a social bird, but as a salse interpretation of the term adopted in the original. Virgil does not here speak of ravens but of rooks. Corneilles would have been less erroneous, but eralles is the term immediately referred to.

The chariot race, described in the third book, is rendered with much spirit and success: the abrupt commencement of the original, so accurately preserved by Warton, is lost, how-

ever, in this French version.

Cent chars précipités fondent dans la carrière;
Tout s'éloigne, tout fuit; les jeunes combattans,
Tressaillans d'espérance, et d'esfroi palpitans,
A leurs bouillans transports abandonnent leur ame:
Ils pressent leurs coursiers; l'esseu sisse et s'enslamme:
On les voit se baisser, se dresser tour à tour;
Des tourbillons de sable ont obscuroi le jour;
On se quitte, on s'atteint, on s'approche, on s'évite;
Des chevaux haletans le crin poudreux s'agite;
Et blanchissant d'écume, et baigne de sueur,
Le vaincu de son sousse le vainqueur:
Tant la gloire leur plaît, tant l'honneur les anime!

P. 229.

In his version of the pleasures of a rural life, towards the termination of the second book, M. de Lille is obviously, we

De Lille's Translation of Vingil's Georgics. think, superior to any of our English translators both in via gour and fidelity. The beginning of this beautiful digreffion has much praise. Ah! loin des fiers combats, loin d'un luxe imposteur. Heureux l'homme des champs, s'il connaît son bonheur! Fidèle à ses besoins, à ses travaux docile, La terre lui fournit un aliment facile. P. 181. And the address to the Muses is little inferior to the commencement. ... as askalled author and arrow · O vous à qui j'offris mes premiers facrifices, Muses, soyez toujours mes plus chères délices! Dites-moi quelle cause éclipse dans leur cours Le clair flambeau des nuits, l'astre pompeux des jours; Pourquoi la terre tremble, et pourquoi la mer gronde; Quel pouvoir fait enfler, fait décroître son onde; Comment de nos foleils l'inégale clarté S'abrège dans l'hiver, se prolonge en été; Comment roulent les cieux, et quel puissant génie Des sphères dans leur cours entretient l'harmonie? Mais fi mon fang trop froid m'interdit ces travaux Eh bien! vertes forêts, prés fleuris, clairs ruisseaux, J'irai, je goûterai votre douceur secrète: Adieu, gloire, projets. O côteaux du Taygète, Par les vierges de Sparte en cadence foulés! Oh! qui me portera dans vos bois reculés? Où sont, ô Sperchius, tes fortunés rivages? Laissez-moi de Tempé parcourir les bocages; Et vous, vallons d'Hémus, vallons sombres et frais, Couvrez-moi tout entier de vos rameaux épais. P. 183 We cannot pay altogether the fame compliment to his verfion of the exquisite episode of Orpheus and Eurydice: here we think him inferior, both in strength and pathos, to Dryden and Warton. The exquisite couplet, so difficult to be rendered with effect into any other language, b. iv. v. 497, lamque vale; feror ingenti circumdata nocte, Invalidasque tibi tendens, heu! non tua, palmas : is extended to nearly fix verses, and occurs thus: Adieu; déja je sens dans un nuage épais Nager mes yeux éteints et fermés pour jamais. Adieu, mon cher Orphée; Eurydice expirante En vain te cherche encor de sa main défaillante; L'horrible mort, jetant son voile autour de moi, M'entraîne loin du jour, hélas! et loin de toi. P. 335. Eurydice expirante en vain te cherche, &c. is infinitely leis



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impressive than invalidasque tibi tendens, &c. and the expression loin du jour, hélas! et loin de toi, will form no comparison with the compressed and exquisite sensibility of heu! non

Notwithstanding, however, these occasional defects in transbring a poem that is, perhaps, the most finished of any poem the world, M. de Lille has executed his task with wonderful fuccess, and has added, in no inconsiderable degree, to the poetic fame of which he has long and honeftly been possessed. It has been his grand and avowed object to imitate the harmomous flow of numbers fo conspicuous in the Georgies; and in this point we think he is absolutely unrivalled by our English interpreters; while in France there is no one who ought to hold a place in the fame library. His notes are highly entertaining, and by no means uninstructive; they are rather explanatory than critical; and have the merit of much novelty in proving, by extracts from Pliny, Columella, and other agricultural writers, that Virgil was perfectly verfed in the fcience of rural economy, as it existed in his own age; while he adventures, by citations from more modern agriculturifts, to recommend the greater part of his precepts to the practical farmer of the present day. The republic of France is under great obligation to this elegant poet for the combined enterminment and instruction he has hereby provided for it; and amidst the universal agromania, to adopt a term of our author's, which it is now daily evincing, we are not furprifed to and that his labours have been devoured with an almost infatable avidity. Long may his countrymen feast upon the same falutary diet!

M. de Lille's L'Homme des Champs is at this time under our confideration, and some account of it we shall take care to

communicate shortly.

Leçons d'Anatomie Comparée de G. Cuvier, Membre de l'Inflitut National, Professeur au College de France, et à l'Ecole centrale du Panthéon, recueillies et publiées sous ses Yeux. Par C. Dumeril, Chef des Travaux Anatomiques de l'Ecole de Médicine à Paris. 2 Vols. 8vo. Paris. 1800.

Lectures on Comparative Anatomy by G. Cuvier, Member of the National Institute, &c. Published by C. Dumeril. Imported by De Bosse.

COMPARATIVE anatomy is yet in its infancy; and, whilst the subject of human anatomy is exhausted by the repeated descriptions of useless minutiæ, no author has yet detailed, with systematic accuracy, the progressive changes or dealer. Vol. XXIX. New Arr.

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gradations of each organ in other animals, or in the more imperfect classes. In our own language, we have the indiforiminate mass of Collins, the masterly sketch of Monto, but yet a fketch only. We have the prospect indeed of something more laboured and complete, more minutely descriptive and more elegantly iliustrated, from Dr. Harwood; but at present it is in perspective, and we must feel an apprehension, from its flow progress, of the ultimate failure of our expectations. Besides these, we have only feattered facts in different collections, the most valuable of which are from the late Mr. J. Hunter, who might have furnished many important materials for the future student. had not the multiplicity of his occupations distracted his attention from an object that, at one time, feemed to occupy him entirely. From our present author we may expect an account more definitive and complete, illustrated with numerous plates, affifting the description of the gradual variations in the structure of each animal, as adapting it to different fituations, or employed in different functions. M. Cuvier is professor of anatomy in the central school of the Pantheon, and has free access to that noble collection which Daubenton created, and from whence he drew the materials of the most important part of an immortal work.' He is affifted by the fage and experienced counsels of M. Mertrud, who for nearly half a century has been engaged in investigations of this kind; who laboured with Daubenton, was highly praised by Buffon, and has refused the most brilliant and lucrative situations in foreign countries, to purfue his favourite science in a place where it could be alone cultivated with complete fuccess. The title, however, will inform the reader that this is not the work of M. Cuvier, but a copy of his lectures, by one of the most distinguished of his pupils. It has, nevertheless, been examined and corrected by the author, who admits it to be his own; and, while his vast system of comparative anatomy waits the tedious, but necessary labour of engraving, M. Cuvier permits this compendium, this shorter collection of facts and opinions, to prepare its way. Were we not taught to expect more, we should consider this as a most valuable system, meriting confiderable praife. It indeed fills a chasm that has been long empty, and which we have often had occasion to regret had not before attracted the attention and animated the exertions of anatomists.

To expatiate on the utility of comparative anatomy would be an useless task; yet it has been placed in so striking a light by M. Cuvier himself, in his introductory letter, that we shall select the passage.

Chemistry and natural philosophy can reduce to an almost indefinable simplicity the problems which they offer. They

they wish to examine, and can compare and combine them successively with every other. The physiologist has not this advantage. Every part of a living body is connected, and cannot act but when united. To separate one part of the mass is to reduce it to the rank of a dead substance, and to change entirely its nature. The machines which are the objects of our investigation cannot be dismounted without being destroyed. We do not know what would be the result of the absence of one or many of the wheels, and consequently cannot know what part each acts in the whole machine.

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Nature has happily prepared the means of remedying the impossibility of making certain experiments on living bodies. She presents, in different classes of animals, almost every possible combination of organs: she shows them united by twos, by threes, and in almost every proportion. There is not one of which she has not deprived some class or some genus; and it is sufficient to examine the effects of these re-unions, or these privations, in order to draw probable conclusions respecting the nature and use of each organ from its individual form.

We may follow the same track in determining the use of different parts of any organ. To distinguish the essential from the accessory, we need only examine what parts are constantly found, and what change is produced in the functions of any organ by the absence of those parts, which are sometimes wanting in certain classes.

We are not, however, permitted to confine our researches to a few species only: a single one neglected discovers an exception, which destroys a system. This method of reasoning, it will be obvious, cannot be exact, till we have obtained a complete knowledge of the anatomy of animals; but, if comparative anatomy is not yet sufficiently perfect to conduct us to certain discoveries, it may become the touch-stone of results obtained by other ways, and a single fact from this science has at once destroyed the whole scassfolding of physiological investigation.

M. Cuvier has adopted the various observations of his predecessors, when his own labours have shown that they are well established; but we perceive that he has not copied them very anxiously; and when he has submitted to do so, has not been careful to refer to his authorities. In this part of his work there are some striking traits of the literary characters of two nations (we suppose the German and English), which, as the passage is not long, we shall transcribe.

You will perceive that the greater number of the authors I have been describing, are of a nation, which, excellent as it is from its inventive genius and its indefatigable patience in every

research, has not been able to contain, within proper bounds, an eagerness to display its erudition; an eagerness which may, however, be probably the effect of too much modesty, and a

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mistaken respect for others.

Another nation, not less admirable for the boldness of its views, and its exertions in every thing relating to science, seems to have fallen into the opposite error, in despising so-reigners too much; and in valuing and consulting only its own countrymen. This kind of pride, useful perhaps in a political view, will, in scientific researches, particularly in those of facts, contract the ideas and give that dryness which forms the character of some of its natural historians and comparative anatomists.

It is now time to leave M. Cuvier's introductory letter, and examine the body of the volumes themselves. Those at present published contain a comparative description of the organs of motion; and of the brain, nerves, and organs of sense. A vast field remains which, we should suppose, would fill at least three, if not four, other volumes. These we have reason to think ready for the press, but were they not—' est quoddam prodire tenus,

fi non datur ultra."

The work commences with fome general observations on the animal economy. Animal life is confidered with respect to its nature, its origin, and the structure of the organs to which its phænomena are owing; thus contrasting inorganic and organised matters, whether vegetable or animal. To these fucceed a general view of the animal functions with their confequences, and a concife table of the parts of animals, as well as their principal uses. The infinite variety of modifications of which life admits are then examined, as referable to each particular function; viz. locomotion, fensation, digestion, absorption, respiration, voice, generation, &c. This article leads to a very important consideration, viz. the relation between the various fystems of organs, showing how the existence of one is connected with that of every other; in what manner, when one is weakened, disappears, or advances, in the feries of animals, another takes analogous or opposite characters; the connexion between the nature of the aliments, and the particular forms of locomotion, as well as the correspondence between the nervous and respiratory systems. The claifification of animals, from their organisation and anatomical characters, follows; and an abridged view of this chapter 18 comprised in nine tables at the end of the first volume. We have examined it with some care, and perceive with satisfaction that the outlines of the Linnéan system are thus preserved, and some of its apparent incongruities avoided. The bat, for instance, is excluded from his affociation with man. This claffification deserves to be better known, but we cannot abridge it.

M. Cuvier next proceeds to the organs of motion. He examines the bones in a general way, and instantly passes on to the muscular fibre, its composition, and vital powers. Then returning to the bones more particularly, he treats of their elements and their evolution at three periods in some animals. and at two in others, the form of their cavities and finules, instanced in birds, where the air circulates through them, in horned animals, &c. The decay and reproduction of the offious fystem is a kind of necrosis. Indeed we well know that living animal matter is not absorbed. Shells which form the firm refifting parts of many moluscæ, and the bone of the cuttle-fish in particular, engage his attention. He next treats of articulations, distinguishing those of which there is no example in the human body, as the claws of cats, the weapons of defence employed by the morfe, and many others peculiar to fish, pursuing the subject to the articulations of the shells of the moluscæ, those of the crustaceæ and insects. He notices the organisation of the tendons in the two last orders, their absence in the moluscæ, their mode of union with the fleshy fibres, uses, &c. in more perfect animals, finishing with remarks on the portions into which the skeleton is divided, and the different degrees of perfection which each shares in different spe-

The spinal column is next described in its whole variety. It is singular, that while the number of vertebræ in each region differs in different animals, that of the cervical vertebræ is uniform, except in the three-toed sloth. It is impossible to abridge descriptions, but these are in every part accompanied by philosophical considerations on the relation between the muscles and the bones, as, for instance, between the want of the pronators and the absence of one of the bones of the fore arm of the bat; between the organs, and the habits, the manners, and

mode of living of different animals.

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The locomotive organs of animals with white blood are explained with more difficulty than those of animals with red, because they have not such general relations to each other. After dividing them into families, the author is obliged to except two or three species, and describe them separately. In these lower orders, the species often differ more from each other than the classes of more perfect animals. This part is concluded by the examination of these orders in action: first, in standing, on two seet, in a vertical position, as man; in an horizontal position, as fowls; or on four seet, as the mammalia: secondly, in walking, either on two or four feet: thirdly, the modes of holding and climbing: fourthly, leaping: fifthly, swimming: sixthly, slying. These different functions are explained only in those animals which have vertebræ: they are treated of with the organs themselves in those which have no vertebræ.

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The fecond volume is introduced by an examination of the head, confidered as the receptacle of the principal organs of The author treats of the skull, and its proportions to the face, particularly in a perpendicular fection; and of the remarkable diminutions of the facial angle, as examined in a feries of animals. In the skull, he considers the number, connexion, and form of the bones; the projections and cavities of its internal parts, which point out the shape of the medullary organ contained in it; the foramina, with which the base of the cranium is perforated, and which are equally the indices of the disposition of the nervous system. In the face, he describes the number, the figure, and the disposition of the bones; the foffæ observable in them; the different foramina and inequalities which give a passage to the nerves and admittance to the blood veffels. It is curious to remark how all these parts increase and diminish, and assume a thousand varied shapes on the mammalia, birds, reptiles, and fishes, for all the varied form of the different organs are pursued in each class.

M. Cuvier proceeds from the receptacle of the organs, effential to fenfation, to the description of the nervous system, examining its organisation, its relation in different divisions, the texture of the brain and spinal marrow, the nerves and ganglions, and the manner in which they arise and terminate. This system is next considered in action, propagating or receiving irritations; as the seat of various sympathies, and the source of different intellectual operations. The brain of man is then compared with that of different animals. An infinite variety is found in its form; and, in species which have no vertebræ, many of its branches are not to be discovered. One part is, however, constant: in every animal there is a tubercle

analogous to the cerebellum.

The particular examination of the nervous fystem commences with a description of the brain, in which the author purfues a courfe different from that of other anatomists. Indeed this is not the only anatomical anomaly, and we should have mentioned fooner the attempt to introduce a new nomenclature in many parts, particularly in the names of the muscles. This language, like that of the new chemistry, is defigned to be descriptive of the organ, and, in the myology, of the origin and infertion of the muscles. After describing the human brain, he attends to that of the mammalia, and eftimates its proportion, not only to the body, but to the eerebel-Ium and medulla oblongata. The evolution of the internal parts, the disposition of its base, and the origin of the nerves, are next confidered; and the subject is pursued, in all these varieties, in birds, reptiles, and fifnes, comprehending many circumfrances peculiar to each. The whole is compendiously brought into one view by an account of the characters of the brain proper to each class of animals, which not only thows

the striking differences which separate each class, and give them a distinction peculiarly their own, but which may perhaps supply, in some cases, discriminating marks of species with more certainty than external form. The consideration of the brain and spinal marrow concludes with a description of its involucra and vessels.

The accuracy with which the nervous system of vertebral animals is detailed, renders it almost wholly a new work. The nerves are described as usual in the mammalia, birds, reptiles and sishes; and it is highly curious to observe how each is changed, modified, and differently disposed, from its corresponding nerve in the human body, which is always its prototype, in consequence of the different forms or functions of the organs it supplies. This is particularly striking in the the par vagum, the nerves of the diaphragm and thorax. The great sympathetic nerve accurately described in each class, with the remarkable differences which distinguish it, terminates the history of the

nervous system in vertebral animals.

In the classes without vertebræ, it is almost necessary to describe individuals, on account of the immense differences to be found in each species; but each of these individual descriptions will give a general idea of the distribution of the nervous fystem in the families to which the animal belongs. Perhaps in these animals more minute accounts would have been tedious rather than instructive. The objects of the particular description are well chosen, and they are the most common of the families, so that the diffections may be more readily follow-The history of the nervous system is terminated by an examination of the animals apparently deprived of it. Many have fome analogous appearances, as the afterias, holothuria, &c. while, in our author's opinion, the hydras and polypi have an homogeneous organisation, where nothing can be distin-guished. His error, in this last respect, consists in considering each individual as a fingle animal, though, in reality, it is a congeries of animals, connected only by the homogeneous pulp.

In the treatise on the eye, M. Cuvier gives a general idea of vision, and describes every part of the organ in man and in different animals, mentioning the distinguishing parts peculiar to each class, as the pigmentum in man, the choroidal gland in fishes, &c. The manner in which the optic nerve enters the eye to form the retina, in animals with red blood, is found to be

the same in the cuttle-fish, alone, of the lower orders.

The organs of hearing are treated of in an inverse method, rising from the simplest to the most complicated organisation, from the crustaceæ to the mammalia. Every part, both internal and external, is thus pursued with the minutest accuracy.

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muscles, paniculus carnosus, &c. The form of the singers leads the author to consider the organs which supply their place in other animals, as the trunk of the elephant, the upper lip of the rhinoceros, the long muscular muzzle of the hog, the comb of the cock, the tentacula of insects. The parts which defend these organs, as hair, feathers, horns, nails, &c. though not directly connected with the sensation of touching, are also noticed in each species. The organs of taste and smell are examined with the same minute attention in man and various animals.

We have preferred this general account of the whole of M. Cuvier's work to a felection of different parts, on which we might have expatiated more at large, to give the reader at one view fome idea of its value, of the vast extent of our author's acquisitions in this department, and the information to be derived from his labours. We have seen nothing so complete and comprehensive, and anxiously wish for the future volumes, which we shall notice with particular care. To have solved him more closely would have engaged more of our attention and space than we could well bestow, and would have prevented that variety so essentially necessary for a literary journal, designed for general readers as well as scientistic inquirers.

L'Inde en Rapport avec l'Europe, &c. Paris.

The Relations of India with Europe, a Work divided into two Parts; the first on the Political Interests of India; the second on the Commerce of that Country; and including Views useful to all Nations which have Colonies, chiefly those established in Africa, Asia, and the East Indies; and which presents, besides, a minute, exact, and dreadful Picture of English Machiavelism in the latter Country, and offers to the French Government, and to Commerce, an assured Resource in the Re-establishment, maturely considered, and so much dreaded by our Rivals, of a French East-India Company, supreme, and with exclusive Privileges. By Anquetil Duperron, Traveller in the East Indies, and of the late Academy of Inscriptions and Belles-Lettres. 2 Vols. 8vo. Imported by De Bosse.

SUCH is the prolix and partial title of this work, which we believe we mentioned in a curfory manner in one of our retrospects; but as the importance of the subject to this country authorises a more ample detail, we now refume it for that purpose. A striking singularity of this performance is, the spirit of enthusiasm with which it is composed, which might perhaps have been well adapted to the French character of the time, but, to the cool English reader, seems eccentric

and censurable in the discussion of political and commercial affairs. In this same spirit is written the dedication to the manes of Dupleix and Labourdonnais.

Magnanimous Shades! from the peaceable abode which ye inhabit, deign to throw a glance on the fair climates of Afia, which still resound the greatness of your names! Audacious Albion has usurped, in those countries, the trident of the seas and the sceptre of Hindustan. Cruel and persidious, the returns with usury to France, her rival, the state of humiliation to which she was reduced by her military exploits and political operations.

Breathe into the foul of your descendants that fire, that national ardour; inspire them with those sublime sentiments of patriotism, which elevated you so far above your epoch. Let the Frenchman behold, in what you have done, what he

himself can and ought to do!' &c. &c.

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The author then expresses his hopes of again seeing the French flag wave with majesty in the seas and regions of India. Vain and fallacious expectations! The Egyptian expedition is incapable of fulfilling them, and fate feems to have erected invincible barriers against the return of the French to this country. If our fears had now any rational object in that quarter, it would be, left the emperor of Ruffia should refume the defign entertained by the late fovereign, of pouring an army into Hindustan, which, affisted by the injuries of the natives, might sweep before it the very name and memory of the English nation, and lay the trade of India open to all the other European powers. But this danger may perhaps be as imaginary as any of the views of our prefent author, who proceeds, in his preface, to confider numerous advantages that would refult to France from an expedition to India, but forgets to point out the means of fending an army.

of butiness, the merchant, gives details of manufactures, cargoes, and ships; the administrator repeats political events, and presents accounts of management and revenues. The "Relations of India with Europe," without confining itself to any of these three objects, includes them all, in offering sacts, giving opinions, and furnishing introductory ideas: in pointing out the means of treating, in every state of affairs, with the Moors, the Mahrattas, the people of Malabar and Bengal, &c. and forming with these nations solid connexions, allowed by equity and humanity; and which, in the letter and spirit, would be advantageous to both parties.

Such is the direct and sole aim of this production,—illarranged, it is true, but nevertheless the fruit of more than forty years of reflection, joined with a knowledge of the territory, and of the languages and opinions of the inhabitants, together with a perusal of all that has been written on the subject, and perhaps a turn of mind calculated for this kind of labour.'

Our author afterwards proceeds to state the reasons which led to the suppression of this work in 1782, by defire of the French minister; and he observes, upon the occasion, that power, like a leprofy, disfigures the best of men; so that even the good and just Malesherbes, when he refigned his office. faid, 'I must endeavour to save the half of my reputation,' Duperron tells his countrymen, in a long note, that they are not liked by the opposition in England, nor by the insurgents in Ireland. 'The first have no object in view but parliamentary reform and the expulsion of Pitt the minister, with whom, it is true, the hatred of the French name is hereditary: the fecond wish to introduce the Roman catholics into the parliament of Ireland. We shall serve as the means, and afterwards the two nations will unite in one mass against us. This, we believe, is very true, and we rejoice that it is true. Yet there was at one period just apprehension lest the French should have let loose the wild Irish into this country, where, inflamed by animofity, and strangers to the laws of war, they might have renewed the examples that we find in history, of

fanguinary and indifcriminating devastation.

We shall now proceed to give the reader a general idea of this work, which is minutely divided and subdivided. The introduction explains the radical causes of the errors which have hitherto prevailed among the European nations in the establishment of colonies in Hindustan, and the necessity of a new system. The first part of this work confists of fix articles, as the author thinks proper to style them, all relating to the political interests of India, but fometimes necessarily blended with commercial views. The first article relates to the personal interests which the Indians and Europeans may have in mutual intercourse; the second to the political interests of the Indian nations and princes; the third particularly considers Heyder Alli and Tippoo Saib; the fourth presents a picture of the military operations of the English in Hindustan, from 1756 to 1783. The fifth article discusses the present principles of the English parliament in the administration of Bengal: the next presents a plan of administration for India, subdivided into sections, and accompanied with a reglement or statute, which is again divided into eleven articles; so that the author's minute subdivisions only tend, as usual, to introduce confusion; and the common mode of chapters or fections would have been a preferable arrangement, there

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being two errors equally inimical to perspicuity,—the one a large undigested mass, the other an excess of minuteness which oppresses the reader as much as the opposite extreme.

The fecond part relates to the commerce of India, and is divided into two articles; the first relative to the internal intercourse, the second to the European trade: the first article, however, rather relates to the best situations for European settlements. The second is divided into several sections, and particularly examines whether the trade of India ought to be opened to individuals, or restricted to companies, the author preferring the latter plan. In one of these sections, the author gives an account of the chief publications in the English, Spanish, and French languages, concerning this grand question.

The introduction opens in the following terms.

Three hundred years of revolutions, of acquifitions, and losses, of prosperity and missortune, of greatness and humiliation, ought to have taught Europe that she has been deceived with regard to the means proper to invigorate the commerce with India, and to establish, on a solid soundation, the relations which she wishes to form with the people of that country. We have been contented with consulting the passions. The appearance of a considerable gain has produced conquests, and avarice has regulated their progress, &c.

Duperron then proceeds to affirm, that the example of the colonies established in America, an uncultivated and savage country, has led to errors with regard to the Indian fettle-ments. There is here certainly more imagination than judgment; for the Portuguese settlements in Hindustan, we believe, preceded any regular establishment of the Spaniards in America; and at any rate, the complete difference of circumstances must have impressed the most ignorant reader in the most ignorant period. Yet our author seems to pique himself on discovering, that a colony can only be established with fuccess where the former inhabitants are few and savage, and the land uncultivated. The English never had the most remote idea of forming a colony in India; the leading principle was to secure a fortune, and return, as speedily as possible, from a climate inauspicious to the corporeal frame of Europeans. It is therefore a mere waste of words, and confusion of ideas, to speak of our establishments in India as colonies; the various European nations, which have successively held the supremacy in these oriental regions, having aimed at nothing but a superior military establishment, to protect settlements which they always justly confidered as temporary, and only calculated for the immediate advances of commerce. The author observes, that India being already occupied by a civilifed people, there can be no right, by any law of nature or nations, or even the most feeble principle of loose morality, to pretend to the property of any portion of the country; and the distance being so great, this injustice would, in the end, become a fruitless crime. He therefore asserts, that the sole mode of forming a lasting intercourse with Hindustan, is to appear there as a friendly nation, on principles of mutual advantage; not only the most just and humane method in itself, but enforced by the successive examples of the decline and ruin of every other species of intercourse.

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We were not a little furprised to find the French treatise called the Political Testament of Sir Robert Walpole, repeatedly quoted in this work, when it is well known to all Europe that it is an absurd forgery, formally disavowed by the late lord Orford, and esteemed beneath all notice by every writer

of common information.

We shall not attempt to follow the author through a long chain of facts and reasonings, many of them particularly trivial, and familiar to the English reader, but shall content ourselves with translating two additional extracts, in order to give a more complete view of the spirit and tendency of this publication.

After explaining the conduct of the Portuguese and Dutch, in the Indian trade, Duperron recapitulates that of the French and the system of Dupleix, and then proceeds to that of the

English.

Let us now examine the management of the English. I leave apart the monopoly on the commodities of the country and on foreign merchandise, exercised in the provinces of Bengal, Bahar, and Orixa, the custom-house dues exacted from other Europeans, and the prohibitions issued against individual merchants, Armenians, Portuguese, strangers of every kind, &c.

'That nation has acquired, or rather usurped, in the two hays of Bengal and Cambay, and on the coast of Coromandel, considerable possessions near its principal establishment. In this respect, the choice is more consonant to reason than that of our former possessions. The four cirkars or districts, yielded by Salabet Zing to the French company, were too

distant from Pondicherry, the centre of its strength.

But the English, in Bengal, have rendered themselves masters of rich countries, where manufactures slourish; they enjoy the revenue of that province, of the province of Bahar, and of the portion of Orixa, which the last nabobs had preserved. Here is an extent of domains which the capital, Calcutta, can no longer protect. Let us observe, in the second place, the consequences to the country itself.

rope, as they would be obliged to do with the revenue and money of a province without manufactures, the English take these articles under the name of tribute, of revenue, of indemnity, of restitution, &c. at the rate that they please to fix; and contract on credit, with small advances, for what remains in the warehouses, to sell it to other Europeans, who engage to remit the price to them in England. Nevertheless, in order to appease the clamours which an excessive tyranny has raised against them in Europe, they allow the nations established in Bengal to bespeak some articles in the country, where, however, it is hardly permitted that the weavers should work for them. In this way the greater part of the manufactures of Bengal return no money to the province. This is the first cause of the want of coin in the country.

2. As the revenue of the provinces occupied by the English is considerable, in the view of diminishing the expenses of the company, they no longer draw currency from Europe to pay, or even complete the returns, or to furnish the expenses of protection, of labour, or of administration; nay, little English merchandise is imported; the only means, nevertheless, considering the constraint under which the old native merchants exist, of drawing from their chests the money shut up for fear of the invader:—a second cause of

the want of specie in the country.

3. The English chiefs engage like merchants in all their operations, whether military, administrative, or civil. The colonel, fometimes a foreigner, and of course less anxious in committing the honour of the nation which he ferves, makes a bargain with the court of directors to pass three or four years in India at the head of a regiment, whose enterprises are to make his fortune and that of his constituents. He arrives; awakes the avarice of the leading men, in proposing to them to attack fuch a nabob, or fuch a rajah, whose treasures, amassed during a long peace, will enrich the company, the factories, and the persons employed in the expedition. Instantly complaints are uttered of affronts and extortions, and the Indian prince is despoiled. The directors, at first, disapprove: they are appealed; they are gained over with lacks of rupees in a prefent, or as a constant revenue, and the colonel coolly brings back to Europe an immense fortune, the fruits of the commerce of blood, which he went to carry on in India.

'Every individual, from the president of Calcutta, of Madras, of Bonbay, to the meanest person employed, from the general to the common soldier, says to himself,—Let us accumulate a fortune in three or four years, and then return to England.—They are armies of insects, sent successively to eat the grass, as soon as it begins to spring again. The money

which existed in India thus leaves it, independently of commerce, and returns no more. This forms the third cause why

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4. In fine, by their extortions and taxes, by the deterioration of the qualities of the merchandife, by their administration, or rather a formal denial of justice, the English keep the proprietors at a distance; and even the merchants are accustomed to come from the north of India to buy Bengal articles, which they pay for in cash, and to make sale at the bottom of the gulf. &c. while, at the fame time, they have raised the value of the gold coin, in order to supply its deficiency; -which is a fourth cause of the want of specie in Bengal.

In the next fection the author attempts to show that the fearcity of money, and the repeated attacks on property, ought to produce an infurrection in the natives. But oppression may be long borne without insurrection; and the author feems to entertain abfurd ideas concerning the military character of the Hindus, though innumerable transactions in their hiftory evince that they are even an effeminate race of men.

Our next extract shall be from the conclusion of the work.

At least, let the past instruct us what has been the liberty of Indian trade fo much wanted? A few favourite privateers, one port only, that of Lorvion. Bourdeaux disputes the right, and reclaims absolute freedom of trade. The mayor of Lorrion supports the rights of his town. Ought objects of this importance to be abandoned to the felf-interest and avarice of

any particular fpot? . To bus required a semice We may form systems in our cabinet, and propose and defend good, considered abstractedly. It is thus that the œconomifts, united with the pretended philosophers, will overturn and destroy governments. It must at the same time be proved, that this abstract good is adapted to the object. For fovereigns, whoever they be, are answerable for the errors into which they draw their subjects, who are incapable of certain discussions, and who pay superiors appointed to discuss for them.

' To speak in few words, the commerce of India is an instrument of fortune dangerous in the hands of him who cannot make use of it, chiefly on account of the distance and of the quantity of capitals risked in one armament. Custom, as is well known, is in some fort rendered necessary. A part of the articles procured may perhaps be useful—the rest belong entirely to curiofity; but an imperious curiofity, which over-rules fuch a people as the French.

· If the government find this trade really and effentially hurtful to the state, it has the right of absolute abolition, and may exercise this right without injuring liberty. Still more justly, and without any injury to freedom, ought it not to

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permit this intercourse to exist, but in the precise form alone in which the business may be carried on with safety and honour. Otherwise, we must renounce every notion of justice or injustice in society, of the lawful right of individuals, and

the lawful authority of governments. A vib of studdies fue

Experience is the most convincing, and at the same time the most dangerous master in an affair of this complexion. Thus it has shown us factories destroyed; considerable property buried under their ruins; a multitude of men, in want of every thing; a maritime school, the first in Europe, annihilated; legitimate fortunes, acquired with great labour, withdrawn from honest and industrious citizens, and even transferred to our enemies; in fine, the French name rendered contemptible in the eyes of all Asiatic nations. Must such missortunes alone be capable of teaching us, that the commerce of India cannot be carried on securely, honourably, and constantly, but by a company, with exclusive privileges?

however predominant, when we wish to speak the truth) I understand a supreme company, but without power, under any pretext, of concerning itself in the affairs of the country, still less of undertaking wars, direct or indirect, all questions concerning such subjects being instantly transferred to Eu-

endition, was abutes, infeparable agor

It is idle to believe the possibility of separating the commercial part of a country from the government: no European sovereign can bestow upon his officers, military or civil, such high stipends as a commercial company can do. Nevertheless, people do not go to India for change of air. Whence it would follow, that the commerce of a company, which is not sovereign, would be constrained and tyrannifed over, and perhaps the trade usurped, by the administration.

All that go to India, military men, physicians, missionaries, lawyers, men of letters, all are merchants, or become so, as well as the mariner, the man of business, and the agent. The white nabobs of Madras, Calcutta, and Bombay, have taken a higher slight in despoiling the natives of the country. At Pondicherry, at Schandernagor, where we walked with measured steps, every inhabitant sold the little that he had of cotton, cloths, handkerchiess, muslins, &c.

On the other hand, if the government named by the Eutopean fovereign, and distinguished from the company, have the power of making war of itself, without the positive order of the authority by which it is established, there will be always the same disorder and excess, because, at the distance of six thousand leagues, remote from the observation of the mother country, people become, in order to gain a fortune, merchants of provisions, of stuffs, of imposts, of tributes, of men, and, if the trade bring more, even of human blood.

It is high time that pretentions to wit should cease in France, or at least that they should yield to the good sense of our forefathers in matters of administration, which they certainly studied more than we have done. Are we then hired by our neighbours to dry up all the fources of national opulence? Let us vary, if we please, our amusements. To-day operas, comedies, balloons, parachutes, Martinism, Mesmerism, convulfionism, Cagliostrism, theophilanthropism; to-morrow confirutional clubs, legislation, moral dramas, fermons, and liberty. humanity, uniforms, military exercises, &c. &c. but let us renounce for ever famine and blood. These atrocious refources are not in our character. A Frenchman revolts from them : he is brave; it is the pufillanimous foul that is cruele He is the friend of gaiety; and abandons the country in which the gloomy demagogue always, in the name of liberty, invades or stifles the law, and holds in chains the haughty spirit that refuses to bend the knee before him. The rights of man, of whatever condition he may be, are definite; but I would not wish them to be engraven on my heart with the point of a bayonet. I aim at being free freely, and not in order to avoid capital punishment. It guint solos to

The present fanaticism, already considerably diminished, will soon totally cease. The East-India company will be reestablished in its first condition, and abuses, inseparable companions of wealth and authority, will again plunge it into

those misfortunes which have caused its ruin.

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Such is the course of human affairs.

Expériences sur la Circulation observée dans l'Universalit du Système Vasculaire; les Phénomènes de la Circulation languissante; les Mouvemens du Sang, independens de l'Astion du Cœur; la Pulsation des Artères; par Spallanzani: Ouvrage traduit de l'Italien, avec des Notes, précédé d'une Esquisse de la Vie littéraire de l'Auteur. Par J. Tourdes, M. D. &c. 8vo. Paris. 1800.

Experiments on the Circulation observed in the Vascular System; the Phænomena of a languid Circulation; the Motion of the Blood, independent of the Action of the Heart; the Pulsation of the Arteries; by Spallanzani. Translated from the Italian, with Notes, preceded by a short Account of the Author. By J. Tourdes, M. D. Imported by De Bosse.

IN our last volume, p. 203, we noticed the English translation of some of Spallanzani's essays, and expressed our surprise that this should have remained unnoticed, a circumstance which we attributed to the translator's having followed

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the French version of Sennebier. The suspicion is now perhaps better founded, for M. Tourdes informs us, that the present is the only essay of Spallanzani which has not appeared in the French language. It is the only work of Spallanzani

which we do not possess in our own.

The 'Experiments' before us, published at Modena in 1777, under the title of 'De' Fenomene della Circulazione nel Giro universale de' Vasi,' &c. are at this time well known. The author has been guilty of some errors, but the great merit of the work, which some late physiologists have overlooked, renders its more general publication highly defirable. We shall take a short notice of it, after examining, what indeed was our principal motive for introducing the present translation, the literary life of Spallanzani. The remarks on this subject were intended as a part of a more confiderable work. Carminati defigned to trace the minuter history of his private life; Brera undertook to describe the disease of which he died; and M. Tourdes to analyse his different works. The disasters which attended the army of Italy, at the conclusion of the last year, put a stop to the design; and our author, uncertain whether he should again see his illustrious coadjutors, has published his share 'without addition or change,'- 'The reader,' he adds, will not forget my first design, nor the title of this essay. They are only a few flowers, fcattered by friendship, on the tomb of the celebrated naturalist of Pavia. Had I wished to write an eulogium, I should have adopted another plan. Sennebier, who has intimately known him twenty years, is alone the proper person to become his historian.'

Spallanzani died in the spring of 1799, having completed his seventieth year. He was designed for the profession of the law; and, after a classical education pursued with no common avidity and success, he actually began the study of jurisprudence, which he soon, however, lest for the more pleasing researches of philosophy. At twenty-six, he was appointed professor of philosophy and belles lettres at Rezzio, about nine miles from his native town, Scandiano, at the soot of the Appennines. He here laid the soundation of his suture same.—

By turns a chemist, physician, physiologist, philologist, and natural philosopher, we shall always find him a profound genius, an able observer, a rigorous analyst, an eloquent writer,

and an accomplished man.'

Some of the earliest compositions of Spallanzani are philological. They are to be found in his Letters to Algarotti, published in the sourteenth volume of the Venice edition. They relate to Homer, and to Salviani's translation, which he thinks often feeble, trifling, and inaccurate. His remarks thow that he had studied the Grecian bard with minute attention, and could taste his beauties with great feeling and precision. These letters

APP. VOL. XXIX. NEW ARR. 2.1

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are dated in 1761; and in 1762 he published his 'Description of a Journey over the Mountains (the Appenines), with Observations on the Origin of Rivers.' His theory is the modern one of the condensation of vapours, which no philosophic author has yet attempted to combat. In 1766 he published his differtation 'De Lapidibus ab Aqua resilientibus.' The rebounding of stones, striking the surface of the water obliquely, had been attributed to the elasticity of that sluid; but our author proves it to be a continuation of the impulse directed differently by the cavity formed on the surface of the water, in conse-

quence of the first impression of the stone *.

Though Spallanzani published at Pavia his first esfays on infusory animals, the experiments were chiefly made at Rezzio. where he continued fix years. He then removed to Modena, where he published, in 1768, his 'Prodromo sopra le Riproduzioni Animali.' This, as the title informs us, was an introduction to a larger work, which never appeared. It was fuperseded, he faid, by the valuable labours of Bonnet. reproduction of the head of a fnail excited, we remember, at the time, great opposition, and he returned to the subject in A memoir appeared in the Verona Transactions of 1782 and 1784, entitled 'Resultati dei Sperienze sopra la Riproduzione della testa, nelle lumache terrestri.' He there defends this experiment, and mentions the authors who have fupported, as well as those who have combated, his opinion. Among the former are, Turgot, Lavoisier, Tenon, Herissant, Bonnet, Sennebier, Scheffeer, Muller, Roos, and Troile. Among the latter, Murray, Wastel, Cotte, Bomare, Adanson, Schroeter, Argenville, and Presciani-a formidable host! The latter proved, and it is we believe now the general opinion, that Spallanzani did not really cut off the head of the fnail, but fome other part.

His next work was published at Modena in 1768, 'On the Action of the Blood in the Human Body.' It was dedicated to Haller, and combated many of his opinions. It is well known in this country, as well as the opposition it excited. Haller alone received it without refentment; for 'he was the mildest, the most amiable, and best-informed of men.' He proposed, about the same time, to undertake 'a series of experiments on the production of mules in the insect tribe, in order to elucidate the grand problem of generation.' In the following year he published a translation of Bonnet's Contemplations of Nature, with numerous and learned notes. Of this work, fifteen editions have already appeared, while, in English, we

^{*} These differtations are re-published in the Racolta d'Opusculi Scientissiv tom XIV. The originals are peculiarly scarce, and we believe they have appeared in no other language.

believe it never attained the honour of a second impression: so correct is M. Cuvier in his estimate of the English literary character.

Pavia, now deferted and ruined, has only its university to offer to admiring strangers. But even the most splendid riches of this institution are owing to Spallanzani, though it can boast of many eminent characters in medicine and philosophy. Spallanzani was chosen professor of natural history, in this university, in the year 1770. It was the study most congenial to his talents: it had been the subject of his attention in all his moments of leifure: he was a natural historian by choice, the rest was the effect of necessity. His inaugural speech, which is published, is truly excellent, and its chief subject is a comparison between Buffon and Reaumur. We need scarcely doubt that he preferred the latter, though many will controvert his choice. His best work, and almost his last, on leaving Modena, is that before us. It leads his biographer into fome difquilitions respecting the practice of medicine; but, while he contends that we have not advanced in the cure of difeafes; beyond the practice of the Coan fage, we must on our side contend, that he is unacquainted with the science in which he has taken the highest degrees. We will affert, and are prepared to defend the opposite position, and to prove that no science has, within the last fifty years, made a more rapid pro-

The microscope has discovered new worlds, and Spallanzani employed it dextrously †. The Molecules Organiques of Busson, the first rudiments of animation, the component parts of more perfect animals, our author proved to be animals. The 'Opusculi de Fisica Animale e Vegetabile' was published before he retired from Modena in 1776: they are the essays translated by Sennebier, and again into English in the last year. These molecules our author proves to be real animals, from their motion, organisation, nourishment, element, and temperature, the acuteness of their smells, their being influenced by electricity, their requiring atmospheric air, their generation, and remind

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The Experiments on Digestion were next published. These were translated into English in 1784, and were noticed in our LVIIIth volume. They have been severely criticised by Mr. J. Hunter in our own country; and, in one part, their op-

frequently read Sophocles!

† His brit publication on this subject is omitted by our author in its chronological order. It is entitled 'Saggio di Osservatione Microscopiche relative al Systema della Generatione de' Signori-Needham et Busson; Modena, 1767.

^{*} Such kirks of declamation is familiar with the French writers, who often speak in this way without reflection: thus, in one of the philological memoirs of the National Institute, the author says, that we admire Shakspeare, but most frequently read Sophocles!

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Como. The general objections of our own countryman are shortly replied to in the work before us, and, in reality, are not of striking importance. M. Volta attacked him more pointedly on the latter subject, and contended that he never made the experiments described. To this author, and his objection, which involved not only his philosophical, but his moral character, Spallanzani replied in his Lettera a un Amico di Mantova. We well remember being greatly embarrassed by Spallanzani's affertions, and at least thought that his experiments had not been made with sufficient precautions, or accurately related. The Experiments on Generation were the next in order, and these also have been translated, forming the second volume,

published in 1784.

Spallanzani had also the care of the museum, and enriched it with many valuable curiofities. These he was enabled to collect in the course of his numerous and extensive journeys. His first travels were in Italy; and some remarks on the natural history of the objects observed in this tour were publithed in the Select Tracts at Milan, in 4to. and in Rozier's Journal, 1783, from which, about that time, we extracted an account of them. Two letters to Bonnet, 'Relative a divers: Produzioni Marini, e diversi oggetti Fossili et Montani,' were the fruits of these journeys, and published in 1784 at Verona. In 1779 he traversed a part of Switzerland; in 1781 he coasted the shores of the Mediterranean, from Leghorn to Marseilles; and in 1782 and 1783 he visited Istria, on the shores of the Adriatic, and the Euganean mountains. His principal journey, however, was to Constantinople, and the Grecian islands, in 1785; and his account of it, which received, we believe, his last hand, there is reason to suppose will be published. In his letters, entitled 'Physical Observations made in the Island of Cythera,' he attributes the defolate state of this island to the ravages of volcanoes. This letter is addressed to the chevalier Lorgna, and published in the Verona Memoirs. He returned through Bulgaria, Wallachia, and Hungary. At Vienna he staid some time, and calumny spread the infamous tale that he purloined some valuable curiofities from the Cabinet of Natural History; but, after a careful examination, he was declared innocent by an imperial edich, and his accuser disgraced.

Three years passed, filled only with the publication of some letters, and we could have wished that his raillery had spared, in these, the respectable Scopoli, who had been rendered ridiculous by a gross imposition. In 1788 he travelled into the two Sicilies, and it is the work upon these travels which we have lately examined in an English dress. It was published in 1792 at Pavia, in six volumes 8vo. Nearly at the same time, in Bruggatelli's collection, appeared his Letter on the Fall of

Stones, which happened the fixth of June at Bologna. He supposes them to have been raised from the earth in a whirlwind, or thrown up by an earthquake, and not the product of volcanoes, as they do not show any marks of having been subjected to heat.

His Experiments on Blind Bats, and his Hypothesis of a new Sense, we have had occasion to notice at some length. As a chemist also, in 1796, he repeated the experiments of Goëtling, who, from phosphorus shining in azotic gas, endeavoured to undermine the pneumatic system. In chemistry, he appears to have been a diligent experimenter, but scarcely to have made any considerable advances. His Treatise on Respiration is in the hands of Venturi, and will probably be soon published. He died the second of February, 1799, of an apoplexy, while engaged in an investigation of the relation between apoplexy

and the periodical fleep of cold-blooded animals.

Of the differtation itself, published so long since, we shall The author endeavours to show, that the heart, in its contraction, does not throw out the whole of its blood. This fluid he has proved circulates with equal velocity in the fmallest and largest arteries, and that the various angles or curvatures neither increase nor diminish the motion. course is not uniform: near the heart, it is alternately propelled and at rest, while these interruptions in the progress of the circulation are less apparent, and in the extreme arteries, Arteries, he observes, change into veins, in many different ways:- fome only change their direction; others are previously involuted:—fome anastomose directly; in others, a cellular substance is interposed: - sometimes a single vein rises from many arteries; at others, an artery appears to produce many veins. As the blood approaches the heart, its velocity was found to increase, though scarcely more than one third in the largest, compared with the smallest veins. Contrary to the opinion of Haller, our author has proved, that, when a large vein anastomoses with a small one, the current of the blood from the latter is not retarded, whatever be its angle. In almost every other vessel the motion of the fluids suffers no interruption when anaftomoting.

Spallanzani thinks that the motion of the blood depends only on the action of the heart; but his own observations disprove this doctrine, and it is now abandoned. The veins, though in greater number than the arteries, and of a larger diameter, we are told convey the fluids with the same celerity as the arteries, whatever be their length, their diameter, or their distance from the heart, provided the comparison be made with corresponding

vessels.

Haller collected the appearances of languid circulation, and speaks of its irregularity, and of the oscillation of the vessels previous to its stopping. Spallanzani thinks these irregularities

owing to Haller's method of observing, and the effect of the tortures to which the animal was subjected. He found the circulation grew gradually flower till it stopped, without any interruption or oscillation. Bellini informed us, that when a vein or artery was opened, the blood rushed from above and below to the cavity. This fact Spallanzani has confirmed, but the cause is unknown. Haller supposed it owing to a contraction of the coats of the vessels, an opinion which Spallan-

zani in vain endeavours to combat.

Gravity has an effect on the circulation, only in the large, not in the small, vessels .- The colour of the blood is red : its yellow and whitish shades are an optical illusion. The globules, he tells us, swim in an invisible elastic fluid, and are almost fpherical, lengthening or flattening according to the diameter of the vessel. The animals with warm blood have, at a very early period, a larger quantity of globules than those with cold blood; but, as the age of the latter increases, the red globules are more numerous; and, in each kind, they are nearly equal in number, proportional to the bulk. In the latter, the circulation can always be observed, as the coats of the vessels are so thin; in the former, it can only be feen a short time after birth. Animals furvive a few days after being deprived of the brain and heart, but die fooner when deprived of the latter organ than when the former is cut off.

Such are the facts furnished by Spallanzani in these differtations, facts on which, at this time, we need make no remark, M. Tourdes has added a few notes of no great importance.

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IT will be obvious that the view of literature and science can never be complete by an examination of the works of one country only; and, for this reason, at stated periods, our Jourpal, and those of the most respectable of our brethren, have always recurred to the works published on the continent. Yet the narrow limits of an Appendix can feldom contain more than a few volumes of the most important nature, and many, truly valuable, must be omitted, or very slightly noticed. Since our Journal has been extended, the publication of three numbers, in one year, has given a greater scope to this part of our plan, but we have still found ourselves compelled to omit an account of works which ought to be known, beyond their own sphere, and for this reason, since the first alteration in our arlangement, we have given an 'Occasional Retrospect of Foreign Literature.' We styled it 'occasional,' though it has been continued, with few intermissions, in each Appendix, and is, in reality, a part of our original plan, perfevered in for many years under the title of Foreign Articles. It was for a time taken, professedly, from the foreign journals; but having, as mentioned in our last Appendix, extended our connections, we affume a higher tone; and, though we do not deny adopting occasionally the accounts of the best journalists, yet we can add, that many of the volumes have been examined by ourselves. In effect, this part of our work, as it respects foreign publications, stands on the same footing with our Monthly Catalogue. It contains a brief account of fuch publications as merit only a short character, or which will not properly admit of a full discussion. Like the Monthly Catalogue, it may be fometimes doubtful to which part of the number any work should properly belong, and we ought to add, either in the English or Foreign Literature, no disrespect is intended by configning a publication to one part rather than another. When the destructive ravages of war shall make communica-2 P 4

tions more easy and expeditious, the whole extent of our plan will be fully developed: and then only can it be justly appreciated,

FRANCE.

Introduction à l'Etude, &c. An Introduction to the Study of Botany, illustrated with fix coloured Plates, containing a Discourse on the Connection between Natural Sciences, a complete and comparative Treatife of the Organs of Plants, and their Functions at every Æra of their Life, in which the Botanical Terms are applied and explained; a particular Explanation of the Organs of those Plants, arranged in the Class Cryptogamia; the Principles of the Art of describing Plants according to Linue; particular Details on the Habitation of Plants, their Virtues, Uses, and Cultivation; the Manner of arranging and preferving them in a Hortus Siccus; an Explanation of the general Methods of Tournefort, Linne, Jusfieu; of the particular Arrangement of the Terms by Smith; of the Mosses, by Hedwig and Bridel; and of the Mushrooms, by Bulliard, with Tables that give this Work the Advantage of a Dictionary, by J. C. Philibert. 3 vols. 8vo. Paris.—We have copied the whole of this title, as it comprehends in itself a table of contents. The character and abilities of the author are well known to us, and he has exerted them very advantageously. This work is styled an Introduction, only because it does not contain the characters of classes, orders, and genera, but it is a complete treatife on the general doctrines of botany, and the physiology of vegetation.

Voyage dans l'Empire de Flore, &c. A Journey to the Empire of Flora, or Elements of Vegetable Natural History; a Work, in which is inferted the Analysis of the Lectures of the learned Author of the Flora Atlantica, par L. M. P. T. 2 vols. 8vo. Paris.—The first part of this work contains the description of a plant, according to the systems of Tournefort, Linnè, and Jussieu; the second, a description of plants, according to their classes, &c. There is some piracy alluded to in this retrospect from Dessontaines, from which 'a Botanist' is anxious to clear himself. In reality, it is copied verbatim from

that author's Table of Genera.

Tableau d'Ecole de Botanique, &c. A Table for the Botanical School at Paris, or a general Catalogue of the Plants cultivated there, and arranged in Classes, Orders, &c. according to the System of Jussieu, followed by an alphabetical Table of the vulgar Names of Plants most commonly used in Medicine, &c. by a Botanist. Paris. 8vo. 1800.—The author of this Catalogue tells us that he had no share in the plagiarism committed lately, to the injury of Dessontaines. His Object is to comply with the request of many of his students,

and to communicate to them the various advantages which he

has himself reaped from the Catalogue before us.

Manuel Tabacal, &c. A Treatise on Tobacco, and the different sternutatory Plants, by J. Buchoz.—We have already spoken of M. Buchoz, of his labours and his talents. The present work contains a differtation on tobacco, its different species, cultivation, and gathering, the manner of preparing it, with its useful and injurious properties. A list of other plants, which may be used as sternutatories, in Latin

and French, is subjoined.

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Calendar of Gardening, con-Année du Jardinage, &c. filling of Extracts from the best Writers on this Subject, both ancient and modern, by J. F. Bastien, Editor of La nouvelle Maison Rustique. 8vo. 2 vols. Paris.—We had intended to have enlarged on these volumes, and to have contrasted the directions with what experience has taught the English gardener; but we found the detail would be long, and not altogether interesting. We shall therefore confine our account within more narrow limits, and, in general, recommend these The advice, however, must volumes as deferving attention. be taken, in England, with many exceptions, and the reader will find various directions detailed with great parade which the most common English gardener is well acquainted with. Some variation also will be observed from what is useful in these latitudes, from the difference of seasons; above all, the prognostics of the weather will seldom be found to agree with those figns which experience in these islands has established as most certain. Yet we think the English gardener may read this Annus Hortenfis with interest, often with advantage.

Tableau d'Histoire Naturelle, &c. Table of Natural History, or a Sketch of the most useful Productions of the three Natural Kingdoms. To which is added a Table of Contents, with the most material Terms in French and English, by M. de Montaigu. 12mo. Paris.—This little descriptive catalogue of natural productions is designed for the use of schools, but we fear it is too technical to be interesting to the younger scholars. To those, however, who are farther advanced, or whose curiosity is more ardent, it may be useful. Though far from correct, in many of the views given on different subjects, we see no very striking or material errors. In the glosfary subjoined, the English explanations leave the student as much in the dark as the French words. Realgar and tinkal, for instance, have no other appellations in the English co-

lumn. Many fimilar imperfections occur.

Amour des Plantes, &c. The Loves of the Plants, a Poem in four Cantos, followed by Notes, and a Dialogue on Poetry, translated from the English of Darwin, by J. P. F. Deleuze.

Darwin's fame, and on account of the notes of M. Deleuze. These are ingenious and interesting: they relate to the different plants of which the author speaks, on their parts of fructification and re-production. The translation is elegant, and, in general, correct; but, in a few instances, M. Deleuze seems

not to have caught the full meaning of the author.

Zoögraphie des diverses Régions, &c. Zoögraphy of different Countries, both of the Old and New World, with an Atlas. By L. F. Jauffret, Member of a variety of Philosophical and Literary Societies. Paris. 1800.—This work is defigned for the instruction of the younger students; and the atlas which accompanies it, like that of Zimmermann, in his Specimen Zoölogiæ Geographicæ, contains the figures of the animals on the spots which they inhabit. It contains also an abridgement of the natural history of the mammalia and birds of each region, with a short account of the geography of their native countries, and is, on the whole, one of the completest and best executed works of this kind that we have seen. It well deserves a translation.

Philosophie Entomologique, &c. Entomologic Philosophy. By F. St. Amand. A Work containing the necessary Information to commence the Study of Insects, and the natural Relations of these little Animals with other organised Beings; sollowed by an Explanation of the Systems of Geosfroy, Linnaus, and Fabricius. Villiers. 8vo. Paris.—The title is so suppear to us to be clear, and the work well adapted to its

professed purpose.

Histoire Naturelle des Salamandres de France, &c. The Natural History of the Salamanders of France, preceded by a methodical Table of the other indigenous Reptiles, with fix coloured Plates. By P. A. Latreille. 8vo. Paris. In the year 1797, the author presented to the National Institute, of which he was an affociate, a Memoir on the Salamanders of France. It was graciously received, and ordered to be printed with the 'memoirs of learned foreigners.' He has fince purfued the inquiry, and the prefent work contains his farther investigations. In the first part, from p. xi to xlvii, he enumerates the other indigenous reptiles, following the divisions of Brogniart. In the second part, he considers the falamanders, mentioning the authors who have treated upon this fubject, and noticing the uncertainties in their nomenclature. He then gives a complete view of their economy in every respect, and finishes this part of his work by remarks on the different fexes of falamanders, their vocal organs, and their preperties.

The methodical table of the salamanders of France follows, in French and Latin. This is terminated by a description of the species, which are seven in number, and each is represented in a coloured plate, except the two last, which are delineated

plain.

Essai sur le Persectionnement, &c. Essay on the Means of persecting the Chemical Arts in France. By M. C. of the National Institute, and Counsellor of State. Paris. 1800.—M. Chaptal possesses every necessary quality to render him a competent judge of the methods required to bring the chemical arts to persection, and to this knowledge he adds accurate as well as extensive views. The first method consists in forming enlightened manufacturers; and, for this purpose, he recommends the establishment of various schools for instruction in the different arts. The second is confined to rendering the manufactures cheaper, and the third relates to the choice of suitable situations for different manufactures. These methods are explained at length, with equal judgement and precision.

Anatomy; or, a Description of the different parts of the Human Body. By A. Boyer, Professor of Anatomy and Surgery at Paris. 3 vols. 8vo. Paris.—In a curious investigating age, anatomy must be constantly progressive; and, if the general outline has been completely ascertained, minute variations will always furnish employment to the diligent inquirer. New treatises will therefore be often required by those who wish to possess the whole, without occasionally recurring to different collections, and we have not seen any work more complete than this before us, so far (for it is not yet concluded)

as it extends. The fourth volume is in the prefs.

Observations rares, &c. Uncommon Observations in Medicine, Anatomy, and Surgery; translated from the Latin of Vander Weil. By M. Planque. 2 vols. 12mo.—Vander Weil's 'Observationes rariores' are well known: it is one of those collections of uncommon cases which may be trusted with tolerable safety. The observations on hydrophobia merits particular attention, as the author mentions two plans, lately revived, without due acknowledgement.—The one is washing the wounds with water or wine, warm, mixed with salt, and cauterising them with a red hot iron; the other putting a tight ligature above the wound.

Recherches fur l'Influence de l'Air, &c. Inquiries into the Influence of the Air on the Appearance, Characters, and Treatment of Diseases. By A. Boussey. 8vo.—This is the first volume only of an apparently extensive work. In this, the author offers some observations on meteorology, and inculcates the necessity of observing the changes of the atmosphere. He notices the desects of these observations, and points out the method by which they may be rendered more useful in medi-

cine. He then proceeds to the consideration of the air, whose natural and chemical properties, as well as its action on the animal economy, are examined. In the second volume the author purposes to treat particularly of the different constitutions admitted by Hippocrates; and, in the third, to consider the air as charged with a larger proportion of heterogeneous substances, and thence becoming deleterious. We are well pleased with the author's first volume, and shall notice the suc-

cessive ones as they appear.

Mémoires de la Médicine pratique, &c. Memoirs of the Practice of Medicine on the Climate and Diseases of Mantouan; on the Bark, the frequent Cause of chronic Diarrheas in Young Soldiers, and on the present Epidemic at Nice. By F. E. Foderé. Large 8vo. Paris.—This is the same author whose treatise on temperaments we have already noticed. The present volume contains seven memoits, the two first treating of the climate, the constitution, and diseases of Mantouan; the third of continual severs; the fourth of malignant intermittents and remittents; the fifth of the circumstances in which the bark is useful or injurious; the fixth and seventh on the chronic diarrheas mentioned in the title, and on the present epidemic at Nice. We find nothing in these essays peculiarly interesting, or which requires us to enlarge on them.

Histoire de la Fievre, &c. The History of the Fever which

Histoire de la Fievre, &c. The History of the Fever which was epidemic at Grénoble at the end of 1799 and beginning of 1800. By M. Trouset, M. D. 8vo. Grénoble—This is a short account of a satal sever, of the putrid kind, which lately prevailed at Grénoble. The description is clear, and the treatment, on the whole, judicious, though occasionally trisling medicines seem to have been too much consided in. It is printed by the order of the central administration of the depratment.

De la Peste, &c.—On the Plague, or memorable Epochs of this scourge, and the Means of Prevention. By J.P. Papon, formerly Historiographer of Provence.—The expedition to Egypt has directed the attention of the French to the plague. This compilation is one of the fruits of their anxiety to guard against this destructive scourge. The present author, who does not seem to be a practitioner of physic, has described the most remarkable æras of the disease, the means of preservation, the management of lazarettos, &c. We perceive in it nothing new or peculiarly interesting.

Traité du Goître et du Crêtinism, &c. A Treatise on the Goitre and Cretinism, preceded by a Discourse on the Influence of a humid Atmosphere on the Human Understanding. By F. E. Fodéré, formerly Physician of the Civil and Military Hospitals, and Prosessor of Chemistry in the Central School of Nice. 8vo. Paris. 1800.—The goitre is known to be a swelled throat, and cretinism is idiotcy—a depraved, degenerated understanding. Our author tells us it is derived from

chrêtien, christian, as if these unfortunate beings were Chris-

tians, emphatically, as incapable of committing fin.

Of the goitre, the author confiders the humidity of the air as the remote cause, and an obstruction of the mucous ducts of the thyroid gland as the proximate. In the fecond fection he describes cretinism in different degrees, and speaks of its being hereditary, propagated in general from the father, rather than the mother. In the third fection he proves that the disease, like the goitre, is owing to the humidity of the air, and, from the natural history of the valley of Aoste, where cretinism is most frequent, proves that the air there is peculiarly moist. It is a shocking consideration that, in this valley, in 1792, there were 1740 complete cretins, independent of those which were so in different and slighter degrees. This number occurred in a population of little more than 68,000 fouls. It is pleasing, however, to reflect that this humiliating scourge of the human race is lessening, and the means of lessening it still farther are pointed out by our author. These are, by every method, to render the country dryer, and to give greater firmness, by diet, medicines, and manner of life, to the constitution.

Principes Naturels, &c. Natural Principles; or general and particular Ideas of the Immensity of the Extent of the Heavenly Bodies, of the Principles of Motion, and of the secondary Forces applicable to Medicine. By M. C. F. Lejoyand. 5 vols. 8vo.—The author laid the plan of this work so long ago as 1779, and convinced himself of the necessity of an universal directing force, from which no one is exempt, and which would at least afford 'a glance into the work-shop where

Nature performs her vast operations.'

M. Lejoyand begins by examining the principles of Des Cartes, Newton, Leibnitz, and Paracelfus, whom he calls an 'incomparable fool;' but to whom he approaches much more nearly than he is aware, and of whom he feems to know little more than the name. The principal object in this part of the volume is to 'overturn the statue of Newton, to give to Des Cartes the sceptre of philosophy, and to bring the elements of every science to the simple light of nature.' This simple light of nature has already produced some strange discoveries which we thall not notice, for this reason, that, with all our attention, we are unable to comprehend them. It now adds others, particularly in medicine, viz. that bleeding, emetics, and mercury, are all injurious, adding, with the cant of a pupil of Rouffeau, that, in the best hands, medicine is only a conjectural art. If these volumes have any real object, it is to bring again into fashion the quackeries of Mesmer. The univerfal directing force' can have no other end.

Œuvres diverses concernant les Arts, &c. Miscellaneous Treatises on Arts and Sciences. By J. B. Jamelin. 8vo. Paris.

This is the first number of a new philosophical journals which is to be followed by others in fuccession. It contains first a theory of the motion of rotation, and its application to the motion of the gig; fecondly, an opinion on animal magnetism; thirdly, some hints on rendering forges more perfect; fourthly, a prospectus of a plan of education wholly new, from the age of three to that of ten years.—This number is terminated by the description of the threshing machine invented in England,

and an explanation of the plates.

Mémoire, &c. Memoir on the Culture, the Commerce, and the Use of the Hemp and Flax of France for the Marine and the Arts, by Rougier Labergerie. 8vo.—Almost all the hemp confumed in the naval arienals of France is brought from foreign countries; but our author denies that the hemp of France is inferior even to that of Riga. He contends that it is in general equally long, particularly the hemps of Girondé, Charente, Bourges, of the Limagne, and the Isere. Hemp, however, of about a metre in its mean length, will make a failcloth fine, supple, and elastic. The memoir contains many details interesting to the cultivators, but the plan must be ultimately appreciated by the naval board.

Mémoires fur les Puissances des Nombres, &c. Memoirs on the Powers of Numbers and their Roots, proving that there are no imaginary Quantities. By M. Develey. 8vo. Paris and Laufanne.—Our author in this little pamphlet calls positive, direct quantities, and negative, inverse. His great object is to prove, that every direct number has two squares, the one direct, and the other inverse. Every inverse number has also two squares, one inverse, the other direct. In this, however, he only changes common language. We know that + 6 or -6 may be raifed to any power, and that the number is still

minus.

With respect to the true results to which the calculation of imaginary quantities will lead, they are obtained, he fays, either by compensations of errors, or a comparison of equations equally false, and of this he gives some thriking examples. He adds, that, if imaginary quantities have no existence, they cannot be employed as logarithms to any numbers, nor have their own logarithms; -in other words, every direct number has one logarithm only, and the logarithms of inverse numbers are necessarily the fame as direct ones.

Choix d'Amusemens, &c. Selection of Amusements, phyfical and mathematical; defigned to exercise agreeably the Mind of Youth. By M. L. Despiau, formerly Professor of Mathematics and Phytics. 2 vols. 12mo. Paris.—We have been much pleased with this little melange, which in its plan and execution refembles Hooper's Rational Recreations. The tricks are well chosen and clearly explained, and they comprehend

the various branches of philosophy and mathematics, thus giving a readiness in performing arithmetical operations, and a clearer view of many of the operations of nature, under the

guile of amusements.

Instruction fur les Mésures et Poids nouveaux, &c. Comparison of the new Weights and Measures with the old Weights and Measures, by which the Relations between them are easily known. Paris. 1800.—This is a very useful work for the French; and, when peace arrives, an acquaintance with it will be necessary for the English merchants who trade with France. A short account is prefixed of the foundation of the measures in the metre, the arc or area, the libre, and the gramme. From these elements the multiples proceed in the easiest manner by decimal arithmetic, and the advantage of this method is obvious; but for a time it will be necessary to show the relation between these measures and the old pound, foot, pint, minute, &c. This is done in the work before us with great exactness, so that from any quantity given in old measures its value in the new measures may easily be found, and vice versa.

Méthodes Analytiques, &c. Analytic Methods for determining an Arc of the Meridian. By J. B. J. de l'Ambre, Member of the National Institute, &c. Preceded by a Memoir on the same Subject, by A. M. Legendre. 4to. Paris—Before the National Institute are enabled to publish the details of the measure of 9° 40' of the meridian, which traverse the whole of France and a part of Spain, an operation of vast extent executed with singular precision, two of its members have published methods for completing this immense work, which will be received with gratitude by mathematicians and astronomers.

M. Legendre's memoir is purely geometrical. Its objects are to explain; 1. the manner of calculating triangles, which make the terrestrial part of the operation; 2. the most advantageous methods of calculating the arc of the meridian; 3. the manner of comparing these terrestrial arcs with the celestial, which they subtend, and which are accurately known by observations of latitude; 4. the deducing from thence the quadrant of the terrestrial meridian, supposing the earth elliptical.

M. de Lambre's memoir, which we cannot abridge, is a work hitherto much wanted by geometers who are employed in questions relating to the measurement of the earth, as well as to those who practise mensuration to any extent over its surface. He describes all his methods, whether by observation or calculation, and explains them very clearly, appearing on the whole equally skilful in calculation and in practice. At the end of the volume are some excellent observations by Legendre, terminated by a beautiful theorem, which serves to bring the solution of a spherical triangle to that of a rectilineal

one. The former must have two of its angles very acute, and the other very obtuse, but the length of the sides may be of any

Essai sur le Genre d'Instruction, &c. An Essay on the Kind of Instruction most analogous to the Destination of Women. By Antoinette Legroing, De la Maison neuve. 18mo. Paris. This lady has already published an heroic romance, entitled * Zenobia, Queen of Armenia,' of which we remember a favourable character. Her present work is of a different kind; but her plan is directed with fensibility, taste, and judgement. Her language is a little too flowery; but this is the fault of her nation and of fashion. We shall extract, as a specimen, her definition of happiness.

' Happiness is not a tree which can draw its aliment from the foil without labour. It is rather a star, the sweet influence of whose radiance we can only feel when reflected from the hearts of all who furround us. We must thus love and adore that wife dispensation of Providence, which permits us only to be happy in consequence of the good we do to others.'

Coup d'Œil Politique, &c. A Political Glance at Europe towards the End of the Eighteenth Century. By S. B. 2 vols. 8vo. Paris.—The author premises some considerations refpecting France, before and after the revolution, with a particular examination of the conduct of Austria and England, confidered as the cause of the war. For the review of this part of the work we must refer him to Mr. Marsh .- His political

glance is both a hasty and an inaccurate one.

Examen politique fur les Emigrés, &c. A political Disquifition respecting the Emigrants, in which it is shown that their Proscription is unjust, that a solid Peace cannot be made without an Amnesty in their Favour, and that their Restoration would be politic. 8vo. Paris .- We are glad to fee the caufe of this unfortunate class so boldly and so ably argued. author adds, that, in case of their restoration, their property should be restored, and those who bought it indemnified at the public expense. The arguments in opposition will probably be more powerful, because more weighty.

Précis des Evénemens Militaires, &c. An Abstract of Military Events. By General M. Dumas. No X. - We have mentioned more than once this collection, but we are induced to take particular notice of this number, as it relates to the events of last year, the hinge on which the reverse of fortune of the Austrians turned. The author speaks of the checks received by Suwarrow in Switzerland, and justifies the archduke for his conduct in that respect. The latter could not support the Russian general, for he was necessarily obliged to return to Italy, to preserve the important fortress of Philipsbourg,

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and to cover Swabia and the Voralberg from the threatened incursions of the French. The eagerness of Austria to enjoy its first fuccess in Italy, and to complete the conquest of that country; led her to neglect, in this author's opinion, the only means of preferving it, the possession of the summits of the Alps. The Austrians, however, in pursuit of their favourite object; left the archduke to keep Maffena in check, and pushed forward to Piedmont. General Dumas, after the fiege and conquest of Coni, follows Championet to Genoa, whose advantage to France he clearly points out, and describes the battles fought to gain or to preserve it. This journal will, we apprehend, be delayed for a short time, as the author is called to active fervice.

Catalogue d'une Collection, &c. A Catalogue of a Col-lection of Impressions in Sulphur of Greek and Roman Medals. 8vo. Paris .- The object of the editor, M. Mionet, is to render this collection sufficiently numerous, to accustom the young medallist to types and legends of every kind, without burthening him with too frequent repetitions, differing only by some flight variation of monograms or sym-

bols, ven mi h timb word some should be will also also bus The present collection forms the base of an extensive inquiry: it already confifts of 1500, and the author purpofes to. increase it to 10 or 12,000. The impressions are already made in fuch a manner, as to imitate medals very perfectly. It will be of the greatest use in schools, &c. where history and antiquities are taught, and of no less use to artists, from the excellent execution of the figures, and the mythological fymbols and dreffes.

The catalogue is arranged after the fystein of Eckel, in his Doctrina Nummorum Veterum, which we have noticed at length. In other words, the provinces are arranged according to their geographical fituation, and the cities of each province are placed alphabetically. Each medal is numbered, to prevent errors in the choice. One hundred chosen impressions cost thirty francs; but the collection, complete, is fold more rea-

Idylles de Theocrite, &c. The Idyllia of Theocritus translated into French, with remarks by J. L. Geoffroy, formerly Professor of Eloquence in the College of Mazarin. 8vo. Paris. This translation may be faid to be well executed, if measured and polished prose could convey any idea of the Simple rural Doric, or if a modern Parisian belle could imitate a simple nymph of Arcadia: 'nil fuit unquam tam dispar; and Theocritus would blush at the profusion of meretricious ornaments brought to decorate his unaffected, unaffuming STEPHENING C

The author's preliminary discourse is equally to be reprobated. APP. Vol. XXIX. NEW ARR.

We were particularly disgusted with his treatment of the simply-pleasing Fontenelle, who was undoubtedly unacquainted with rural scenes and objects, but whose modest dissidence never merited abuse. We were displeased also with numerous errors and omissions in his History of Rural Poetry. He has totally forgotten the Admetus of Boccacio, overlooked Sanazarius and Vida, as well as the beautiful description of the scenery of the Bay of Naples, in the Mergellina of Capaccio, with many others. We had prepared a short imitation of his manner in a translation from his translation; but we were disgusted with our work; and, as we are unwilling to impart this disgust to our readers, shall suppress it.

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Eclogues de Virgile, &c. The Eclogues of Virgil, translated into French verse, with the Latin text, accompanied with the translation of many pieces of Theocritus, Moschus, and Bion; and the Episode of Nisus and Euryalus. By P. F. Tissot, sen. 8vo. Paris.—It is singular, that the French have not a good translation of the Eclogues of Virgil; for that of Gresset is rather an imitation than a translation. The present does not fully answer our expectations: it is unusually tame and prosaic. But M. Tissot's notes show that, if he have not

expressed all the beauties of Virgil, he has felt them.

Observations Critiques, &c. Critical Observations on Volney's Lessons of History, by E. C. Jondot. &vo. Paris.—
Volney appears chiefly as the vehicle to introduce our author's reflexions on the moral and political uses of history, which are accompanied with notes, sometimes trisling, sometimes interesting and instructive. We shall give some idea of this

author's manner.

Among other things, he observes that gymnosophists were never great philosophers, and that wisdom could never go naked on the earth.—' Ought they,' he adds, ' to be confidered as sages, because Calanus burnt himself, in the presence of Alexander and the whole Macedonian army; because Zarmonochegas, embassador to Augustus from the king of India, offered a similar spectacle to the emperor and the Roman people? These are two acts of vanity, or rather of folly. Hercules never mounted the suneral pile till excess of grief had destroyed his reason.'

Notice Historique de Marbot. An Historical Account of Marbot, General of Division, who died at Genoa in the Spring of 1800; by A. Rousselin.—This author has already written the lives of Hoche and Cherin. Marbot seems superior to both; for he was an humane, good man. He fought under Dagobert, Dugommier, and Moncey; and, almost alone, opposed the decree, in the army of the Pyrénées,

for granting no quarter.

It was proposed to sentence those emigrants to death who

had returned. Marbot observed,—'The emigrants who have returned have acted according to their profession: those ought to suffer, who, abusing their credulity, have recalled them. The greatness of the nation no longer requires the facrifice of death.'

Notice Historique, &c. An Historical Account of the Life and Writings of J. E. Montucla. By A. S. Leblond. 8vo. Paris.—This is a short account, comprised in twenty-four pages, of the life of an author, whose valuable history of Mathematics we noticed in our last Appendix. Montucla was an excellent classical scholar, and the author has studiously pointed out the influence this had on his other studies.

GERMANY.

Abrifs der Naturlehre, &c. A View of the Physiology of the Human Body, calculated for the use of the lower as well as the higher Schools; containing whatever deserves to be known respecting the Structure and Functions of the Human Body, as well as the Means of preferving it. By C. W. G. Lehmann, Deputy Rector of the Martinian School at Halberstadt. 8vo. with Plates. Leipzig: 1799.—To furnish juvenile readers with a work from which they may learn the complicated and admirable structure of their organic system; to impress them with a due and lasting reverence for its Maker; and strongly to inculcate the moral obligation of preferving that curious fabric; - fuch were the ideas which induced the judicious author of the present volume to undertake its compilation. It is with peculiar pleasure we can bear testimony to the honourable execution of the plan; as, in our opinion, a publication of this nature has long been a great desideratum. Hence we do not hesitate to recommend it seriously to the perusal of every person who understands the German language, and is entrusted with the education of youth. We also think that a speedy and correct translation of this excellent school-book would, in a great measure, contribute to banish absurd prejudices and superstitious notions, which but too early fetter the juvenile mind, and check its progress in rational improvement.

Katechismus der Natürlichen Religion, &c. A Catechism of Natural Religion, designed for Youth in the Country. Containing preparatory Instructions to understand the Socratico-practical Method of teaching Religion, lately published by F. C. Widermann, Chaplain at Regelsbrun in Lower Austria. 8vo. Vienna.—A valuable little publication, by a Roman-catholic clergyman, who treats, in thirteen dialogues, of the form, situation, and constitution of the human body; of the soul, and its operations; of a more accurate knowledge

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of an uncreated Being, and other topics of equal importance. The author attempts to prove that natural religion stands in need of an express revelation, to make us more perfectly acquainted with the Deity, his attributes, and the most acceptable mode of worthipping him, as well as with every thing elfe relating to this subject which it is our duty to believe or The whole is written in a plain and popular style, perform. which however abounds in provincialisms, offensive to the ear of high Germans. M. Widermann appears to be a fenfible and enlightened priest, who possesses but little of that meddling and odious spirit of proselytism *, fo conspicuous in our Gallic emigrants, and the Roman clergy in general. We are amply confirmed in our opinion by the following excellent and characteristic passage, extracted from 'Nonnotte's Philofophical Dictionary of Keligion,' with which the author concludes this useful little treatise. :- The people possess the eatechism, and are guided by the voice of its teachers. Nothing more is necessary to keep men innocent, and fit them for fociety. In it they are taught all their religious and moral duties. The philosophers of every country should be feriously intreated to compose books which might be as useful to mankind as a good catechism: the voice of a teacher would then analyse and explain the doctrines thus privately enforced, support them with arguments, and adapt the proofs to the capacities of the pupil. Every other means would then become either ufeless, too difficult, or altogether impracticable, confequently unnecessary.'

Handbuch der praktischen Landwirthschaft, &c. A Manual of the Practice of Rural Œconomy. By C. A. H. Bose. Vol. III. containing Horticulture, the Arts of Fishing, managing Bees, and Silk-worms. Vol. II. containing the Arts of cultivating and converting Wood to useful Purposes, as well as the Rules of Game-keeping and Hunting in general. 8vo. Leipzig.—With these two volumes the author concludes his useful work, which is well calculated to serve as a domestic encyclopædia, comprehending whatever is of practical importance, especially in rural and retired life. The first and second volumes appeared, respectively, in 1797 and 1798. For the information of our hortular readers, we shall observe that M. Bose, as well as the royal chief gardener at Sans-souci, near Potsdam, have rejected Dr. Faust's method

^{*} We allude to the common report, that the French emigrant priests have already converted more than two thousand servant-girls to the princip es of the Roman-catholic religion. If this be true, the public ought to be on their guard against admitting such fanatics into their samples, where, in the capacity of teachers or visitors, they may do infinite mischief, by corrupting the susceptible minds of youth, and filling them with superstation and my sicisfus.

of planting the feeds of apples and pears, along with the fruit, because it has been found that such feed readily grew mouldy and become unsit for vegetation, if they are suffered to remain within their firm capsules, the texture of which is not unlike parchment. Another remark will not prove unacceptable to the amateur of orchards, as it relates to the fertilisation of trees in general, and especially of the plum-tree, If young fruit-trees have for some time been placed on a meadow-soil, and do not appear to thrive, it is highly conducive to their growth to cover the surface around them, as far as their roots may extend, with the results of thax,—a species of cleanly manure, which undergoes a very slow decomposition; while the grass beneath, together with its roots, is gradually destroyed: by this means the earth is rendered mellow, and the fertility of the trees uncommonly promoted.

Religion, eine Angelegenheit des Menschen. Religion considered as a Concern of Man. By J. J. Spalding. 8vo. Berlin.—M. Spalding is a learned divine and popular preacher at Berlin, who has lately distinguished himself by several excellent treatises on theological subjects, addressed to the Jewish elders of that city. In the present work he endeavours, and not without success, to ascertain the intimate connexion between religion and morality; to resute the objections made, and daily making, by modern divines, against this natural connexion, by separating matters of faith from those of pure ethics; to point out the causes which have contributed to weaken the respect due to religion in general, as well as to its professors; and, lastly, to establish certain maxims, by which the sceptical reader may be guided in the cultivation

and profecution of fo important a concern.

Versuch-über die Harmonie der Gebäude zu den Landschaften. An Essay on the Harmony of Buildings, corressiponding with the Landscape. By J. G. Klinski. Folio; with Plates. Dresden.—In a modest presace, the author informs us that he was induced to publish these ideal designs, with a view of assisting both the amateur and inexperienced hortular architect. His principal object was to combine nature with art, in such a manner, that the eye may be gratisted, while the mind is engaged in the contemplation of symm trical beauty. We do not remember to have seen any similar production, which, in an equal degree, evinces a refined taste and a mature judgement.

Blanda von Carranzo, oder die Liebe ein Abgrund. Blanda de Carranzo: or, Love is an Abyls. A Tragedy by J. E. Li Paulmann, Commissary-countellor to the Duke of Brunswick, &c. 8vo. Berlin.—Although we have met, in this dramatic performance, with many of our old acquaintances, passages, we mean obviously extracted from Horace and

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Sammlung einiger Predigten, &c. A Collection of Sermons delivered on particular Occasions, and composed from felect Texts. By C. G. Glörfeld. Vol. II. 8vo. Berlin .-In these excellent discourses the author displays much practical knowledge of his bible, and an indisputable zeal for the welfare and happiness of his flock. His manner of writing is uncommonly plain, without partaking of any of the vulgarisms with which such kind of style too often disgraces the pulpit. He also frequently aims at explaining obscure pasfages of scripture, in which he generally and happily succeeds, aided as he is by a liberal mode of thinking and wellimbibed fources of historical information. On the whole, however, these fermons would be found much too diffuse for an English audience; though we are of opinion that, on account of their grave and paraphrastic style, they are excellently fuited to the more phlegmatic temper of our northern neigh-

Quinti Horatii Flacci Opera. Ad Exemplar Bentleii recudenda curavit, Argumentis præmissis, Notis Criticis adjectis, Vita Auctoris emarrata, Indicibusque et Verborum et Rerum, illustravit Joan. Christian. Fridericus Wetzel. Phil, Doct. Lycei Primislaviensis Rector. 1799. Tomus primus. Tomus alter, quo continetur Vita Poetæ, Historia Romana per ejus Vitam deducta, Indicesque et Nominum et Verborum. 8vo. Liebnitz.—We have purposely inserted this pompous and promising title at full length, in order to caution our readers against expecting any material improvements on the valuable edition of Horace; by our learned countryman Bentley. And as Germany cannot boatt, and is not likely to boast, of a better edition than we already possess, M. Wetzel's apology, made in the dedication addressed to his venerable friend-Massow, cannot, in this country, be accepted as fatisfactory; for, from the general estimation attached to the Roman bard among ourselves, the public ought never to be told, that; from the labour bestowed on re-editing him, they must expect only 'coenam tumultaria opera paratam;'-nay, we think them entitled to a 'fympofium.'

P. Ovidii Nasonis Opera omnia è Recensione Burmanni:

Chr. Guil. Mitscherlich. Tom. II. 8vo. Göttingen.—In the present volume the learned editor has comprised the five last books of Ovid's Metamorphoses, the Fasti, the Libri Tristium, the Epistolæ ex Ponto, the Ibis, and a sew fragments. We have only to express our satisfaction at this correct edition of this elegant classic; and to add our sincere withes, that M. Mitscherlich may soon savour us with the promised 'Clavis' to this work, which will then claim the attention of every scholar, as it already deserves a place in a classical library, on account of its typographical excellence.

Familiengemalde und Erzählungen für die Jugend. Family Pictures and Narratives, addressed to Youth. By J Glatz, Tutor in the Institution for educating Youth at Schnepfenthal. Two volumes, 8vo. Gotha. - The difficulty of writing books appropriated to the different ages and capacities of children has been often and fenfibly felt by many judicious authors, who have failed in the attempt. Among the modern Germans, however, we meet with several successful candidates for the important office of instructing youth by mifcellaneous publications. Of this description are Campe, Salzman, André, Weiss, and a few others. The author of the volumes before us fills an honourable place among his earlier competitors. We find here a variety of pleafing descriptions or characteristic accounts of worthy and cheerful families, pictures of comic and tragic family-scenes, juvenile fongs, and amusing narratives—all tending either to inculcate the imitation of noble and good moral actions, or to warn young people against the examples of rash and inconfiftent conduct. Mr. Glatz possesses the rare talent of combining a plain and unaffected style with a masterly power of roufing the feelings in the youthful breast: while he entertains the imagination, he uniformly inculcates some effential moral duty. Hence we do not helitate to affert, that this performance is well calculated for an English translation, and that it would form a valuable addition to the stock of a juvenile library.

Theorie der Sämmtlichen Religionsarten, &c. Theory of the collective Kinds of Religion; viz., of Fetishm, of Uranotheism, of Anthropo or Hero-theism, of Mono-theism, and of Moral Deism or Christianism: concisely represented by Dr. Heynig. 8vo. Leipzig. We know of no injury that can accrue to the Christian faith from the method which the author has adopted, in representing the progressive origin of the five principal religions prevailing in the world; but we cannot agree with the doctor when he is of opinion that philosophy and religion ought in every nation to be cultivated, not

with each other; indeed, this idea is repugnant to his own theory of the origin and progress of religion, according to observation and a cultivated nie of the understanding. Nor do we think his advice with respect to religious innovation is well founded; for, if every thing were to be left in its old track, that is, if the different establishments of church and state were never to be revised, improved, corrected, or at least modified according to the exigencies of the age, we must necessarily be perpetuating errors and prejudices, which have no other authorities than custom and power to support them; and, for ourselves, instead of Christianity, we should still be in possession of Druidism. Independent of this consideration, we acknowledge M. Heynig's extensive erudition and historical knowledge relative to the subject of re-

ligion io

Magazin für Freunde des guten Geschmacks. A Magazine devoted to the Friends of Tafte. Five volumes, 4to. Leipzig .- Of this expensive collection a volume has appeared, annually, fince the year 1796. It contains a great number and variety of plain and coloured plates, representing chiefly subjects of ornamental pardening; such as monuments to be erected in gardens, temples, grottos, &c. We find here great complements paid to writers on English gardening, and especially to our old friend Mr. Mason, the late worthy precentor of York, from whose 'Effay on Design in Gardening' the editor has given several extracts; as well as from Repton's Sketches on Landscape or Picturesque Gardening.' But, while the Germans pay a just tribute to the taste and judgement of our countrymen in hortular pursuits, it has not escaped their observation, that we have arrived at a degree of artificial minuteness ill according with the simplicity of nature, and promising little or no advantage whatsoever.

Kurzgetastes Lehrhuch der Moral, &c. Concise Elements of Ethics; or, an Introduction to Morals, calculated for Youth, by leading them to Reslexions on the different Relations, Concerns, Rights, and Duties of Man. By F. W. Wedag. 8vo. Leipzig.—According to the ideas of this author, true religion cannot subsist without a proper soundation of moral principles; because a due sense of the truths and doctrines of religion can alone be derived from such a source; hence he has carefully separated the doctrine of morals from that of religion. There is a promise to treat, in a second volume, of the elementary principles of religion; but the author has paid the debt of nature since the publication of the performance before us. We trust, however, he has prepared materials for the continuation of so useful and necessary a

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work; as the specimen already exhibited firmly convinces us, that few men are better qualified to perform this arduous talk.

Blicke auf die Menschliche Natur, &c. Views of Human Nature, in Imitation of La Bruyère and Rousseau. Two Fragments. Leipzig.—The author of these excellent sketches, as we learn from the preface, is K. L. M. Müller; he may be justly ranked among the most judicious commentators upon the two French writers whom he has chosen as his model. His greatest merit, however, consists in that cool and dispassionate spirit of research, in which he checks and corrects, occasionally, the extravagant ideas of others, especially those of La Bruyère, while his diction is perspicuous and elegant.

Verfuch einer Systematischen Beschreibung, &c. An Attempt towards a Systematic Description of the different Species of Stone-fruit growing in Germany. By Dr. A. F. A. Diel, &c. In periodical Numbers. No Ic 12mo. Frankfurt.- A systematic pomology, drawn from the best sources of nature. The principal and diffinguishing characters of fruit, which the ingenious author confiders as effential to his division, are as follow: -I. Time of maturity and duration of the fruit: 2. Its external character; as, the red colour on the fouthern fide and its shades, the points, spots from the tree, rust-coloured cover, &c. 3. Size of the fruit: 4. Flower and stalk according to their indentation, excavation, and other peculiarities: 5. The capfula feminalis: 6. Flavour of the fruit, and its fleshy pulp: 7. Colour and texture of the fleth, and, 8. Vegetation of the tree. Dr. Diel divides all apple-trees into feven classes, and these again into different orders. His work deferves the attention of botanists and gardeners. It to same usula gal general float both boths love ared

Flora Europæa inchoata. The European Flora, commenced by J. J. Romer, M. D. Fasciculus V. Nürnberg.—
This extensive work was begun several years ago, and the learned author appears to make a very flow progress—perhaps employing his time to better advantage in the practice of his practice.

his profession.

Annales Typographici ab Artis inventæ Origine ad Annum MDXXXVI. continuati: Volumen Septimum. Opera Geo. Wolfg. Panzer, &c.—Of this splendid and classical work, we can only say, that it contains a treasure of literary history, compiled with judgement, chiefly from the labours of Mettairius Densius, and other learned men who have written on the subject it discusses.

DENMARK.

Plane zu Garten-anlagen, &c. Designs for planting Gardens in the English Taste, together with Instructions for di-

viding them and forming small Plantations. By J. L. Mansa. Royal Gardener at Fredericksburgh. Folio; with Plates .- If the definition be correct, that ornamental gardening confifts in the art of adapting every thing to local circumstances, in order to produce the greatest possible degree of picturesque beauty, all engravings of tafteful gardens, however elegantly executed, can be of little advantage to the art itself, because its aim is confined to the representation of beautiful prospects, which cannot be conceived from a plan or drawing on a plain furface. But even admitting the practicability of such delineations, it must nevertheless be confessed that plantations which are extremely proper and corresponding to one fituation never can ferve as models for another place; because each individual spot requires a peculiar arrangement. Although M. Manfa does not mention or point out these difficulties, yet we are fully aware of them: and, as all his plans are probably taken from real gardens, we can praise his ingenuity, and the industry displayed in this work fo far only as relates to the accuracy and elegance of

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Neuestes Handbuch der Sternkunde, &c. A Manual of modern Aftronomy, defigned for the Use of Pupils and Amateurs. Extracted from the Danish Astronomical Catechism of Soeborg; new revised, with Additions and a Preface, by T. Bugge, Royal Danish Counsellor of Justice, and Professor of Mathematics and Aftronomy. Translated, corrected, and accompanied with additional Remarks, by C. G. Zahlen.: 8vo. with Plates. Copenhagen.—From this circumstantial title of a work intended for popular readers, we expected to find in the book itself a compend of familiar astronomy in every respect unexceptionable. Indeed the translator and reviser of this publication have explained the most interesting phænomena of the heavens in a concife and generally plain manner, well fuited to instruct miscellaneous readers, and to elicit, on many occasions, fublime and religious ideas. Among these, however, we cannot include the superstitious notions exhibited on the subject of eclipses, which are faid to be attended with various calamities both to the natural and moral world, fuch as difeases, missortunes, aspersion of character, &c. Yet these constitute the chief value of the work in the opinion of the present editor; and should we however be inclined to excuse this species of human weakness, yet the scientific parts of the book itself are so little free from inaccuracy, that it can by no means be compared with fimilar German works on the fame subject. The author has nevertheless availed himself of the latest discoveries and observations of astronomers, which are inserted in separate notes, while he has often fuccefsfully endeavoured to illustrate propositions and ideas that appeared to him too obscure for popular readers: he has also reduced the whole to a regular

RETROSPECT OF FOREIGN LITERATURE.

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series of narration, instead of continuing each subject in the form of a dialogue, the mode in which it was originally published.

SWEDEN.

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Kongl. Vetenskaps Academiens Nya Handlingar. New Transactions of the Royal Academy of the Sciences. Vol. XIX. for the Year 1798. 8vo; with Plates.—Of this important work the Swedish academicians publish separate parts every three months: we are obliged to state this circumstance, as we are at present only in possession of the fourth number. Its contents are as follow: 1. A few observations tending to illustrate the fituation and climate of the city of Umea, a fea-port and emporium, as well as the residence of the lord-lieutenant of West-Bothnia, half a Swedish mile distant from the coast, and built on a level fand-bank formed by the fea, on the western shore of the Bothnic Gulf. Its latitude is 63° 50', consequently 4° 29 1 farther northward than Stockholm. The foil about this place almost uniformly consists of fand, a species of glarea, covered with dwarfish needle timber. Crystalised fal Umense, so denominated from the city, and a species of vitriolated mineral alkali, mixed with magnefia, is found during a dry fummer very freely in the adjoining fields and ditches. The intense cold and severity of this climate has of late years been confiderably changed by colonial establishments, by grubbing up extensive forests, draining morasses, and an increased cultivation of arable and pasture land. The author of this memoir is D. A. Nazen. 2. An extract from the meteorological journal kept at Umea, during the last fix months of 1796. The mean height of the barometer was = + 14° 1', and that of the thermometer, in the morning, = +3, 4; at noon, +6, 9; in the evening, + 3, 5. The greatest heat on the 18th of July was = 31° 3'; and the severest cold on the 26th of December = +26, o. 3. An extract from the meteorogical journal of the same place in 1797. The mean height of the barometer was = 25° 58"; the greatest heat on the 9th of June 23° 5, and the greatest cold = 22° 1. The barometer was 234 days above the freezing point, and 131 below it. 4. Mineralogical remarks on Gottland, with a petrographic map: by W. Hisinger. This island rises from fixty to one hundred Swedish ells above the level of the fea, and possesses upon the whole a plain flat surface, except a few tough and rugged mountains. It has a remarkable rivulet, which, running half a Swedish mile above ground, precipitates itself into a rocky cavern, and re-appears about three quarters of a mile afterwards. This stream produces the highest fall of water in the whole island, and affords important economical advantages, by supplying a

number of corn-mills, as well as water-works of other deferinrions. Inflead of inferring the dry mineralogical account of this infular country, we shall only observe, that the author has annexed to it a' lift of petrified plants and testaceous animals within its range. 5. Gymnotus Grillii, described by P. C. Lindroth, the discoverer of this curious fish, who named it after the late illustrious promoter of natural history, A. U. Grills. It was taken in the vicinity of Drontheim, measured nine Swedich ells, but was only fourteen inches broad, and weighed no less than nine lies-pounds. It is different from both frecies of this fish hitherto known, namely, the Gymnotus Hawkenii, described by Block, and the Gymnotus Ascanii; the former has caudam pinnatam femilunatam, pinna ventrali biradiata; the latter, caudam obtusam pinna dorsi caudali unita ventrali uniradiata; but the species now announced has caudain acuminatam, pinna caudali nulla, ventrali uniradiate. This marine fifth is represented in a plate, though of a reduced fize, 6. Dysphagia chronica à Bulimia orta: by Dr. Haggftrom. 7. Bucco atro-flavus, a new species of bird from Sierra Leona; described by A. Sparrman, Their specific difference from those of which we possess an account given by Latham, will appear from the following definition: Niger: linea supra et suboculari, jugulo pectoreque luteis, alis flavo-firiatis, abdomine fusco. M. Levins, who is at present on a voyage to New Holland, has given a delineation of this bird of its natural fize. 8. Extract from the meteorological journal kept on the observatory at Upsala, in 1798. By D. E. Holm, quift. The mean height of the barometer was 25, 59; and of the thermometer, in the morning +3, 60, and in the evening, 40, 640 killions zer that out granten

Journal for Swensk Literatur, The Swedish Literary Journal. Edited at Stockholm, by G. A. Silfverstolpe.-Sweden, though a country which has produced many eminent characters in various departments of science, could not till lately boast of a critical review. A learned bookseller commenced a literary gazette at Stockholm, entitled 'Literatur Tidning," in the year 1795; of this work four numbers were published annually; and it contained, belides the review of foreign books, original treatifes on various subjects. The whole was ably conducted; and the criticisms were written with philological acumen; but, for reasons unknown to us, this periodical work concluded with the third volume in 1797. At length the present journal was undertaken by a fociety of men who appear to be lovers of truth and feience, as they pronounce their opinion with candour, and support it with coo and folid arguments; not exhibiting the finallest degree of rancour and illiberality against any philosophic feet. Of this work, the first fix quarterly numbers only are before us; and,

in noticing it, we shall content ourselves with recapitulating few of the original Swedish productions, instead of repeating the titles of the foreign works here reviewed, most of which have already been mentioned in former numbers of our appendix; premifing, however, the following lift of modera Swedish authors and their works :- Poems, by Lidner, Adlerberth, and the count de Gyllenborg; another poem entitled 'The Prosperity of Sweden;' Fant's elementary View of Hiflory, defigned for beginners; Tingstadius's Translation of Job; Tham's Remarks on a Journey; Adlersparre's Historical Collections; Hedin's Medical and Chirurgical Journal; The new Domestico-Economical Magazine; An Attempt towards a Translation of Tacitus; Von Aken's Account of the Intia tutions for extinguishing Fire; Orrelius's Dictionary for Merchants and Druggists; and Compendium of Natural Philosophy-both extremely defective works; Ekmansson's sketches of Penitentiary Sermons; Wahlin's Swedish History, for the use of Beginners; Letters on the Duties of an Historian; Paykull's Fauna Sueciæ Insecta-one of the most important publications of the present day; Wallquist's Manual of Church Preferments, together with the Remarks that have been published respecting them; Bjornlund's Materia Medica selecta (a very useful guide to beginners); Murray's Descriptio Arteriarum Corporis Humani in Tabulas redacta (a new edition improved and enlarged by the author, as the differtations of Murray, contained in this work, were collectively printed at Leipzig in 1794); Letters written during a Journey in Sweden; Sparrman's useful and generally new Facts relative to Medieme, Pharmacy, Chemistry, &c. (this work is not much recommended by the Swedish reviewers); Blex's Philosophical Attempt to determine the Purpose for which Man is created, from his inherent Qualities (nor is this publication favourably reviewed); Collections relative to War, &c .- Without mentioning the fingle fermons and little fchool-books, or the inaugural differtations published in the Swedish universities, we thall only remark that the chirurgical fociety of Stockholm, has, by order of the king, been abolished, and the medical college, on the contrary, been invested with more extensive powers, and furnished with additional instructions relative to

Läsning for Landtman af et Sällskap, &c. Readings for

Country People; by a Society. Three Numbers.

Lasning i Blandade amnen. Miscellaneous Readings.—The latter of these publications is a continuation of the former, which concluded with the third number: both are written in a pleasing popular style, and may be read with advantage, not only by country people, but likewise by the inhabitants of towns and cities. Among the articles deserving attention in the

former, are-An essay on education and instruction, in harmony with nature and politics; -another, On liberty and equality, by Kant; On happiness, by Ferguson (translated from the English); On practical education in Denmark, being the greatest obstacle to national improvements, by Olsen; -Gens comme il faut, a satirical dialogue, &c.—It will appear from these sew heads, that a great proportion of the work consists of translations from other languages; and we cannot on this occasion omit to remark, that most of the books at present published in Sweden are translated from the Danith, French, English, and especially from the German. The new series of these miscellaneous essays contains a much greater and more select number of original communications than the earlier attempt: and of these we now proceed to notice a few of those which occur in the first twelve numbers. 1. On the liberty of the press in Sweden; an attempt to ascertain its legal limits, as well the true meaning and just application of the laws enacted on this subject. 2. On improving and ennobling human reason; a defence of the expiring eighteenth century. 3. On agriculture in general, and the necessity of promoting it in Sweden, preferably to all other objects of trade. 4. The Jacobin in Greece; a fatirical poem, addressed to certain philosophic enthusiasts who at present infest every country. 5. On the pleasure, value, and utility, of reading. 6. On the effect of what is called romantic; a sprightly fatirical essay. 7. On calumny and praise. 8. On the fecrefy observed on political subjects, as well as useful mechanical inventions; chiefly alluding to the national debt of Sweden, and the state of her bank. 9. An inquiry into the neceffity of instructing the public with regard to military affairs. Every number of this interesting journal also contains criticisms on a few books published in Sweden, among which those respecting Clarkson's Treatise on the Slave Trade, &c. translated from the English, and Kant's Elements of a metaphysical System of Morals, from the German, by Professor Boethius, are, without exception, the most acute and instructive.

Electriska Krastens markvardige, &c. On the remarkable Influence and Essect of the Electric Power in the Year 1797, and the probable causes of the Epidemic which then prevailed among Cats at Stockholm, &c.—In this interesting treatise, which fills only two sheets octavo, the anonymous author first treats of the influence of electricity in general, on man and objects surrounding him; then of its positive and negative state, or, as he expresses himself, of its powerful contraction (sammand agning) and subsequent extension (utvidgning), as well as the phænomena attending these changes; and, lastly, he inquires into the proximate causes of the epidemic disease to which the cats of the Swedish metropolis were subject in the course of the above summer. He is of opinion, that the

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power by which cats are enabled to diminish their bodies to half their size by contraction, is derived from electricity, and consequently is connected with the electric motions of the air, fire, thunder-clouds, &c. Hence not only the thin muscles and sibres of these animals, as stated by Abilgaard, but their whole frame is affected by sudden or violent changes in the electricity of the atmosphere, which produced all those nervous symptoms at that time observable, and gradually deprived them of the digestive faculty, so that they were at length neither able to move nor to contract their formerly pliable sibres, and death

necessarily followed.

Inledning tel Chemen, &c. Introduction to Chemistry, by J. Gadolin, Professor of Chemistry at Abo. 8vo. 1798.— This introduction is on the plan, and in part a translation, of Foureroy's Philosophy of Chemistry; but with some additions and various alterations, particularly in the nomenclature. It is remarkable, that M. Gadolin, who could know nothing of the discovery of M. Vauquelin, at the time this introduction was printed, should mention an eighth kind of earth, which he calls Ytterjord, the earth of Ytterby. It resembles, he says, the zercone; and communicates, like this last earth, a sweet taste to the acids with which it is combined. He remarks, that it has been hitherto only found in the form of a black heavy stone, in some pieces of felspar, at Ytterby in Rosalgia.

EAST-INDIES.

A Grammar of the Hindustanee Language. By John Gilehrist. 4to. Calcutta.—This work forms part of Mr. Gilchrist's System of Hindustanee Philology; and is now fold at Calcutta, bound up with his Oriental Linguist, of which our next article gives some account. The skill of this gentleman in the language of India fufficiently appears from his former most useful and excellent publication, the English and Hindustanee Dictionary, in two quarto volumes,—a work which entitles its author to the praise of every Orientalist, and which, we trust, will gain him as much profit as it has already procured him reputation. Of the rules laid down in the grammar before us, and of our author's plan and method, it will be fufficient here to observe, that they are fuch as we should expect from one so perfectly master of his subject. He has diversified his pages with cu-rious and pleasing extracts from the poets of Hindustan and of Persia; and has added some ingenious remarks on Eastern music, of which some specimens are given. He has subjoined engraved plates representing the Indian horal diagram and ecliptic, together with many other curious articles.

We shall extract a few passages from the Indian poets

whom Mr. Gilchrist quotes in illustration of his grammatical rules.

The mole on a fair face steals my heart away, as thieves plunder the city even in moonlight nights.—Whose plaint is this, O Yuqueen! that makes the clouds dissolve into tears, the blackbirds sing notes of woe, and the peacocks responsive with doleful cries?"—

damfels of paradife, who am here intoxicated with the wanton

eve of every one?'-

- The flame of divine love ascended, and a spark mounted to the skies:—it is now his, whose it formerly was, being a part of him.'—

- If you wish to see the truth, continue cleaning the mirror of your mind; for, should it prove obscure, whence

wilt thou learn real knowledge?'-

of absence, O Fighan! is what cannot have happened to the eyes of any one: Then how didst thou behold thy charmer in a dream, and how could'st thou sleep without her?'—

The vernal months are at hand: Lo! the trees are beginning to bring forth their leaves and embryo trains, while my bloffoms of hope are, alas! more than ever drooping to decay.'—

Trouble not thyself, O damsel! with arched eyebrows, about a bow and quiver, when one look is enough to kill

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The Oriental Linguist, an easy and familiar Introduction to the popular Language of Hindustan (vulgarly, but improperly, called the Moor's). Calcutta. 4to. 1798.—To Mr. Gilchrist, the ingenious author of the grammar abovementioned, and of the celebrated Hindustanee dictionary, we are indebted for the valuable work before us, which contains the rudiments of the Indian dialect, improperly, as he remarks, called Moor's; a copious and excellent vocabulary, English and Hindustanee, and Hindustanee and English; various amusing and interesting tales in both languages; dialogues likewife in both; a translation of the articles of war, for the use of the Company's military servants; a collection of Hindustance odes and poems; and some Indian tunes set to music. This publication, with the foregoing dictionary and grammar, forms the complete body of Hindustance philology in three volumes,—a work to highly beneficial to young gentlemen who with to qualify themselves for the East-India Company's service, that any enterprising bookfeller, who should import from Calcutta a confiderable number of copies (if any yet remain for fale), could not fail to derive proportionate emolument, by vending them in this

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THE vigor of hostility, and the animosity of contest, have not declined between the great rival powers since the refusal of the British court to negotiate with the enemy. The rage of war, scelerata insania belli, has not yet ceased to exert its influence. An opportunity of effective negotiation, in the opinion of our cabinet, has not occurred; and nothing, it is affirmed, can secure an honorable peace but a continuance of vigorous exertion.

While the directors of the affairs of Great-Britain were planning new expeditions, the parliament attended not only to those financial arrangements which were calculated to provide for the exigencies of the war, but to other concerns of national policy and general legislation. The tax upon income not being found sufficiently productive, the commons prepared a bill which, they thought, would more effectually preclude evasion, and raise the produce to the

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amount of the estimate. This bill met with some opposition on various grounds, but chiesly because it assected the farmers: it was, however, honored with the assent of the legislature. Another sinancial discussion occurred, when Mr. Pitt moved for the loan of money to the emperor, and for other supplies. Mr. Tierney condemned the idea of purchasing the aid of continental princes; Mr. Canning defended the court; and Mr. Nichol, while he urged the necessity of a speedy pacification, acquiesced in a demand which seemed to him to be prudent and justifiable, as it might tend to accelerate such an event.

Among the motions which excited the attention of the house without being successful, were two that deserve a eurfory mention. Mr. Johnes, having feverely ftigmatifed the conduct of Mr. Pitt and his affociates, proposed an address, conjuring his majesty to dismiss those ministers by whose advice he had refused to negotiate with the French republic, and foliciting a declaration of his willingness to treat with the enemy. As Mr. Pitt refused to enter into a renewed discussion of a subject which had so frequently been agitated, some of the minor orators amused themselves with attempting to answer the arguments for peace. Among these speakers were lord Hawkesbury and Mr. Windham, the latter of whom afferted, that peace was sometimes an evil of greater extent than war, and that, if hostilities should cease, a new species of war might be apprehended, arising from inroads in fentiment, by which the greatest calamities might be produced. Sir William Pulteney replied to the fecretary at war, and declared his conviction that peace was absolutely necessary to save the country from ruin. The majority, however, did not so determine. - On a subsequent day, Mr. Western, another enemy to the war, moved for an inrestigation of the grounds by which a continuance of it could be justified, and for an inquiry into the actual state of affairs. Mr. Wilberforce opposed the motion as highly improper; Mr. Windham refisted it in a speech which contained some ludicrous allusions; Mr. Sheridan recommended the inquiry with his accustomed spirit; the eloquence of the folicitor-general (fir William Grant) was adverse to the proposition.

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No bill of the fession was more strongly contested than that which related to the coercion of adultery. Its chief provisions were, that the offence should be punished by fine or imprisonment, and that the adulterer should not marry the adulteress. Lord Auckland expatiated on the necessity of adopting this bill, as it promised to be a considerable check on an increasing vice. The earls of Westmorland and Carlifle fignified their disapprobation of the bill, not because they were advocates for adultery, but because they were of opinion that the new regulations were of an oppressive nature, and were not calculated to redress the grievance in question, or promote the interests of morality. The duke of Clarence also censured the severity of the bill, which, on the other hand, was vindicated by lord Eldon and the bishop of Rochester. Lord Mulgrave differed from the prelate in the exposition of some scriptural passages; but lord Grenville ridiculed the attempt of a laic peer to instruct one of the heads of the church, and declared that his regard for morality induced him to patronife the bill; which, being supported by the greater part of the house, was sent to the commons for their affent. It was reprobated as injudicious and abfurd by Mr. Sheridan and other members, and rejected by a majority of 30. Though we do not wholly approve this bill, we confider the motives of its advocates as laudable, and yet cannot accuse its opponents of having evinced, in their mode of attack, a difregard to morality.

An attempt was made by the humanity of fir Francis Burdet Jones to prevent, by parliamentary interpolition, the ill treatment of the prisoners in the house of correction for Middlesex. When he had stated, from the evidence of inspectors, various acts of arbitrary rigor, an address was voted, praying that the king would give orders for an inquiry into the state and management of that prison.

During the session, Hadfield, whose attempt against the life of our sovereign we mentioned in our last historical survey, was tried in the court of King's-bench for high treason. By the evidence adduced it was proved that he had been for some years insane, chiefly in consequence of wounds received in his head. He was therefore acquitted,

but not discharged, as the liberty of such a lunatic would be dangerous to society.

When the completion of the public business authorised a prorogation, his majesty, on the 29th of July, applauded the general conduct of the two houses, expressed his peculiar satisfaction at the success of the steps which they had taken for effecting an incorporative union between the kingdoms of Great-Britain and Ireland, and (imitating the language of queen Anne, at the completion of the Scotish union) declared that he should ever consider it as the happiest event of his reign.

The parliament had not long been prorogued, when apprehensions of tumult and riot alarmed the inhabitants of the capital. On the 14th of August, the prisoners in the house of correction, rendered impatient, perhaps, by the late confideration of their concerns, exhibited fymptoms of turbulence, and a defire of escaping from their confinement. They refused to submit in the evening to the usual clofure of their cells; and, when they had been compelled to give way in this point, they uttered loud cries, complaining of the miseries to which they were subjected. These clamors drew a multitude of people to the walls of the prifon; and it was apprehended that the mob would attempt to release the prisoners. Aris, the keeper, fallied out at this crisis, and procured the aid of some peace-officers for the defence of his post. The volunteers of Clerkenwell. those of the parish of St. Sepulchre, and of other districts. repaired to the prison to assist in quelling the disturbance; and peace and order were at length restored.

From the exorbitant price of bread and other necessaries of life, the peaceful part of the community had greater reason to dread the ebullitions of tumult. As a diminution of the price was prevented, in a great measure, by the avarice and the arts of forestallers and regraters, Mr. Rusby and others were punished for such offences; but the discontent of the people was not sufficiently allayed by these profecutions. The pressure became so intolerable, that, in various parts of the country, many of the inhabitants endeavoured to procure, by intimidation and force, a reduction

of the price of corn and other articles of confumption. On these occasions, some depredations and outrages were committed; but the appearance of military parties checked the progress of riot. As it is not necessary to mention every place that was a scene of disturbance, we will only give an account of the riots at Birmingham before we particularife those of London. On the 8th of September, the shops of the bakers at the former town were attacked by the populace, and those who refused to fell their bread at a low rate were infulted and robbed. The next day a steam-mill was the chief object of attack. Its defenders having wounded fome of the affailants or spectators by firing blunderbuffes. it would probably have been destroyed, if a party of dragoons had not opportunely arrived. On the 10th, in the evening, the foldiers who paraded the streets were annoyed with stones by the mob; but these marks of discontent gradually declined

The disturbances in London commenced on the 15th of September. Inflammatory bills had been posted on the monument, urging the people to rescue themselves from famine by their own exertions, and to take vengeance on monopolists and forestallers. In the morning, a mob appeared in Mark-lane, infulted the dealers in corn, and claraoroufly demanded an abatement of the price of that commodity. The chief magistrate addressed the most forward of the populace, and intimated to them, that their turbulence would aggravate the evil of which they complained. Finding his perfuasions of retreat fruitless, he ordered the act against riots to be read; and, without military aid, tranquillity was restored for a time by the civil power. The riot being renewed in the evening, the deputy-marshal and some of the constables received severe blows; but the volunteers who attended were not ordered to fire, as the chief magistrate thought that such violence might be deemed rash and inhuman. On feveral fucceeding days, riotous affemblies disturbed different parts of the city; but the ready attendance of the volunteers, and their firmness of countenance, alarmed the populace, and, without the actual use of fire-arms, repressed the commotions.

While we lament the miseries of the poor, we would earnestly dissuade them from all seditious practices. Let them submit to the ruling powers, and wait the effect of those measures which the benevolent members of the community are now pursuing for the exposure and punishment of avaricious monopolists, and for the full supply of the markets: or, if they should be unable to support themselves in the mean time by their own efforts, let them demand parochial assistance. Turbulence and riot may endanger their lives, without promoting their views of relief.

Passing from these seemes of internal commotion, we proceed to take notice of the late naval exploits of our countrymen, of the expeditions to the coasts of France and Spain, and the western coast of Africa. A squadron under the command of sir Edward Pellew sailed with troops on board towards the coast of Bretagne; and, on the 4th of June, some of the vessels attacked the south-west end of the peninsula of Quiberon, silenced the forts, and cleared the shore of the enemy. A party of soldiers then landed and destroyed the forts. An attack was afterwards made on various posts; and six brigs, sloops, and gun-vessels, were taken, a corvette burned, and a fort dismantled.

This fuccess was soon followed by an interception of supplies destined for the use of the fleet at Brest. Eight boats were employed in this fervice, under lieutenant Burke and other officers, who, amidst a severe fire of cannon and musquetry, took three armed vessels and eight laden with provisions, and drove others upon the rocks near St. Croix. Some of the enemy's ships having escaped to Quimper river, boats were sent on the 23d of June to attack them; but they removed to an inaccessible distance up the river. Two parties of marines. however, difembarked, and blew up a battery and other fortifications. Lieutenant Burke was afterwards fent to Bourneuf-bay, to attack veffels that were moored in a ftrong pofition. Five were captured, besides fifteen mercantile ships: but the impracticability of bringing them out induced the captors to burn them. It unfortunately happened, that the boats, in returning, struck upon the fand-banks, and above ninety men became prisoners.

The intelligence of the reduction of the African ide of Goree, which arrived not long after the report of some of the enterprises on the French coast, gave greater satisfaction to the public. Sir Charles Hamilton making his appearance with a small squadron near Goree, the governor thought proper to surrender; and a British garrison took immediate possession of the forts, and of Jool, a dependent sactory.

An attempt was made, on the 8th of July, to take or destroy four frigates in the road of Dunkirk. Captain Campbell, of the Dart, attacked La Desirée, and quickly added her to the British navy; but the three other ships escaped, though not before they had received considerable damage.

Of a fleet which failed in August on a secret expedition, the command was given to fir John Borlase Warren; and fir James Pulteney had the direction of the military force. To aim at the conquest of Belle-isle is supposed to have been a part of the inftructions given to the two commanders; but the works by which the French had provided for the fecurity of that island deterred their adversaries from the attempt. The armament therefore proceeded to the coast of Spain, and, on the 25th of August, arrived before the harbour of Ferrol. The troops landed without opposition, and advanced towards the heights which overlook the port. A body of Spaniards then appeared, and a skirmish ensued, which terminated in favor of the invaders, though lieutenant-colonel Stewart, who commanded the corps of British combatants, was wounded. The next morning another engagement occurred, in which the Spaniards were defeated, About 100 of their number were killed or wounded: fewer individuals suffered on the part of the English, who were now in possession of the commanding eminences. The opportunity of furvey thus afforded to the general did not give him any hope of fuccess, particularly when he learned, from the reports of prisoners, that the place was well furnished with the means of defence. He therefore ordered the troops to re-embark; and they were not molested by the enemy in their retreat. In the gazette of Madrid, a pompous account is given of this affair, in a curious style of exaggeration and hyperbole; but it is not necessary to contrast the particulars with the official narrative published in this country.

IRELAND.

The Irish parliament, in May last, entered into a renewed discussion of the articles of union, but chiefly attended to the alterations which had been made in them by the legislature of Great-Britain. Lord Castlereagh ably answered the objections of various speakers; a bill was at length enacted for carrying the resolutions into effect; and, on the 2d of August, the lord-lieutenant closed the session with an appropriate speech.

The clamours against the union are less loud and general than they were at the beginning of the session. Many of its adversaries, sensible of the inessicacy of complaint, have ceased to murmur at the loss of the independence of the realm; while others have, in consequence of mature deliberation, brought their minds to a conviction of the probable utility of the scheme. Some of the towns of Ireland may for a time be injured by the measure; but, if the whole kingdom should derive great advantage from the incorporation, partial evil will weigh lightly in the balance.

FRANCE.

Notwithstanding the volatility of the French and the late frequency of revolutions in their country, the consular settlement remains unchanged. The chief consul retains his power and popularity: he rules the nation with sovereign sway, mingles rigour with lenity, overawes some, and concinates others. His temporary absence from the capital alarmed many of his friends with a dread of the decline of his influence; but his enemies were unable to effect any change to his prejudice.

The danger to which the French were exposed in the north of Italy, and the desire of signalising his new dignity by the lustre of military exploits, induced Bonaparte to assume the personal command of the army of reserve. While he was preparing for the expedition, the French in Genoa

were exposed to a general attack on the 30th of April, They could not prevent the Austrians, who were assisted by lord Keith's squadron, from obtaining some advantages during the day; but, at night, they regained all the posts from which they had been dislodged. On the fecond of May, they made a furious fally on general Ott's centre at Sestri, and did not retire before they had lost a considerable number of men. They fustained no small loss on other occasions, and were reduced to great distress by the vigilance of the English, who intercepted by sea the supplies intended for the garrison. On the 6th, the Col de Tende, and other posts occupied by the French under Suchet, were forced by the Austrians, who profecuted their fuccess with such vigour, that they drove the enemy beyond the Var. The citadel of Savona was reduced by a blockade to the necessity of furrendering; and at length Maffena was conftrained, on the 5th of June, to capitulate for the evacuation of Genoa.

The French did not gratify their adversaries with a long interval of exultation. Berthier advanced with the army of reserve, crossed the lofty mountain of St. Bernard, and repelled a body of the enemy at Aosta. Ivrea was reduced by general Lannes, who also, on the 26th of May, deseated the Austrians near the Chiusella, while Turreau met with success at Susa. At Chivasso the chief consul joined the army, and animated, by laconic speeches, those whom he consident-

ly hoped to lead to victory.

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The progress of the republican host was rapid and successful. The city of Milan was re-taken with facility; Pavia and other towns were again brought under the French yoke; and the Austrians were on the point of losing the brilliant advantages of the campaign of 1799. On the 9th of June, an important conslict took place near Casteggio. The generals Lannes, Watrin, and Victor, had the chief conduct of the operations in this battle; and the exertions of the French, after a contest nearly of nine hours, were productive of victory. About 1500 of the Austrians were killed or wounded, and 4000 were made prisoners. Bonaparte was not present on this occasion; but, in a battle which soon solutioned, he was personally concerned. Eager to contend in a

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general engagement, he haltened to that part of the Milanele where Melas had affembled his forces. The Austrian commander did not endeavour to avoid an engagement. On the 14th of June his army passed the Bormida at day-break, and advanced in three lines to an attack. The French advanced guard, conducted by Gardanne, defended itself with spirit. General Victor, who commanded a considerable part of the army, was exposed to a vigorous attack, which obliged him to give way; but he foon returned to the charge. Kellerman's brigade seconded his exertions, and fought bravely on his left, while the corps of general Lannes contended on his right. Marengo, a village near Alessandria, was assaulted and defended with great courage; and other posts were successively gained and lost. By the strenuous efforts of the Austrians, Lannes was in danger of being overpowered, when a fresh corps marched to his relief. He was again repelled, and enabled by the approach of Bonaparte to effect his retreat. The Austrians, having repulsed other divisions, began to consider the victory as inclining to their side. A strong body of cavalry, supported by light artillery, pressed upon the French right, which the grenadiers of the confular guard endeavoured to defend. When these were on the point of retreating, Monnier led a corps to their aid; but he could not effectually support them.

When this memorable engagement had continued about eight hours, the French were retiring without hope of victory, and the Austrians were advancing into the plains of St. Julien, where a body of reserve, commanded by Desaix, an officer who had distinguished himself in Egypt, waited their approach. The chief consul took this opportunity of rallying many of the sugitives; and Desaix charged with such alertness and imperuosity, that the Austrians were consounded and repelled, though they mortally wounded the general who thus attacked them. Melas was at this time so harassed by the satigues of the day, that he could not exert himself with essect. He ordered general Zach to charge without delay; but Kellerman, with a body of horse, made so serve an assault, that he deseated Zach's division, and was gratisted with numerous prisoners, one of whom was the general.

The victory, however, was not yet decided. The Austrians had still a respectable force, with which they might have made a formidable resistance; but Lannes and Watrin rushed with their divisions upon the foe, and, being well supported, completed the victory of the republicans.

If we may give credit to the account which Berthier sent to Paris, 3000 of the vanquished lost their lives on this sanguinary day, 5000 were wounded, and 7000 became captives; but, as the French are too prone to falsification, we are more inclined to adopt the statements of the Vienna gazette, by which the killed, wounded and prisoners, are represented as having amounted to 9069 (5274 of the number being captives). The French admit that 1100 of their countrymen, were made prisoners; the Austrians say 2600. The number of the killed and wounded in the victorious army did not, according to Berthier, exceed 2800; but we may, on strong grounds, extend the calculation beyond 4000.

The consequences of this victory were highly favourable to the French. General Melas was so depressed by the defeat, that, without waiting for orders from his court, he sent an officer to propose terms to the enemy; and a convention was quickly adjusted, importing that there should be a suspension of hostilities in Italy; that the citadels of Milan and Turin, and many others, should be delivered up to the French before the end of June; and that Genoa, which the Austrians had with such dissiputions.

While the armies were contending beyond the Alps, the war was not wholly neglected in Germany, though it was profecuted with lefs spirit. After the battle of Moskirch, the French so closely watched the movements of general Kray, as to meet with an opportunity of attacking his advanced posts, on the 9th of May, at Biberach. The assailants had the advantage on this occasion; but, on the 11th, in an action near Memmingen, they were less successful. Kray now retired to Ulm, where he was considerably re-enforced; but he and Moreau for some weeks contented themselves with mutual observation, while terror and consternation prevailed throughout the circle of Suabia. On the 5th of June,

Kray, imagining that he had an opportunity of gaining confiderable advantage, attacked the left of the enemy. He was fo bravely opposed, however, by general Richepanse, and other officers who had been well instructed by Moreau. that he was obliged to retreat with precipitation. Being particularly defirous of diflodging him from his post near Ulm, the French resolved to pass the Danube below that city, that, by separating him from his magazines at Donawert and Ratisbon, they might compel him to risque another engagement. They obtained possession of the bridge of Hochfladt, feifed various posts near the river, captured many battalions, and drove their adversaries from Ulm. Several battles followed, in which the advantage feems to have been gained by Moreau, who now levied contributions in the Bavarian territories, and deprived the elector of his capital. These hostilities, on the 15th of July, gave way to an armistice; and this truce led to a negotiation, which was conducted on the part of the emperor by the count de St. Julien, who, on the 28th of July, figned preliminaries of peace. As these were long concealed from the public curiofity. many abfurd reports arose on the subject; but they are now published; and it appears that they are founded on the treaty of the year 1797, without containing those very unreasonable demands which they were supposed to include.

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To improve the preliminaries into a definitive treaty, both parties negotiated for several weeks. The emperor wished to include the British nation in the treaty; and a temporary correspondence was opened between the republic and our court; but it has not been productive of a formal negotiation.

Of the state of parties in France, we will briefly speak before we close this article. The jacobins are displeased at the indulgence of the government to the emigrants, and at the toleration of the catholic religion. There are at the same time a great number of republicans, who, without being anarchists, condemn the consular system as too monarchical. The friends of moderation are pleased at the apparent impartiality of the chief consul, as they would wish to sacrifice the animosities of party at the shrine of concord,

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The northern parts of this empire are free from the calamities of war; but the fouthern parts have severely suffered by the collision of arms, and the rapacity of the invaders. The king of Prussia observes the storm without endeavouring to allay its sury, and continues on amicable terms with the disturbers of the peace of Germany.

The emperor, being pressed by the British court to accept fresh pecuniary supplies, concluded a treaty on the 20th of June, by which he became indebted to our sovereign in the sum of two millions sterling, not liable to interest before the expiration of six months from the adjustment of a peace between him and the French. It was also stipulated, that the war should be carried on with all possible vigor.

The negotiations with the French not being successful, the emperor, on the 6th of September, issued a proclamation which announced the rupture of the armistice. He assirmed that, though he had omitted no means in his power for procuring a solid and durable peace, the French government had, without sufficient cause, declared the truce to be at an end; and that, therefore, he intended to repair in person, with the archduke John, to the seat of war, being at the same time disposed to agree to such terms of pacification as might be deemed fair and honourable.

DENMARK.

The Danish court had long been displeased at the right which the English claimed of searching all neutral ships; and, after frequent murmurs, it was resolved that the claim in certain cases should be resisted. On the 25th of July, a frigate, having six mercantile ships under her convoy, was met near Ostend by a British squadron, and a boat was sent from one of our ships to make the usual search; but the captain of the frigate resused to suffer such a visitation, alleging that the vessels had nothing contraband on board; and, when the English commander insisted on the demand, the former fired a shot a-head of the boat. A broadside was im-

mediately given in return, by which two Danes were wounded. The frigate now maintained a conflict with several of the British vessels; and some lives were lost on both sides. The Dane, being overpowered, struck his slag; and the ships that were under his care were brought into the Downs.

As the probable formation of a northern alliance to the prejudice of Great-Britain had been a frequent topic of political discourse, it was apprehended that this incident might lead to an extension of the war. To prevent such a result, lord Whitworth was commissioned to treat with the court of Denmark; and a convention was adjusted near the end of August, providing for the restitution of the ships and the payment of a sum of money by way of indemnification, precluding traders from the protection of a convoy, except in the Mediterranean (where the piracies of the Barbary states render it necessary), permitting for the present the usual search, and reserving the final settlement of the dispute to another opportunity.

The grand point of dispute is, whether trading vessels, failing under the convoy of a royal or national navy, shall be fearched as well as those thips which have not the public flag to protect them. The question involves this difficulty. If mercantile ships should be suffered to escape visitation from having a convoy, they may convey to an enemy all kinds of warlike stores, and thus greatly injure a nation which is not hostile. On the other hand it may be contended, that the flag ought to fecure the merchandife, by making it public rather than private property. The advocates for the general fearch may fay, that, if we could always depend on the honour of a particular government, thips under convoy might be excused from the degradation of a fearch; but, as we may be deceived by plaufible pretences, a vifitation is the only true criterion in this case. We think, however, that candour requires an acquiescence in the declarations of naval officers acting under a royal flag or under national authority.

RUSSIA.

The capricious politics of the Russian sovereign have given disgust to the courts with which he so lately formed an

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alliance. Their persuasions and remonstrances have not prevailed upon him to re-engage in the contest: he treats our cabinet with indifference, if not with insult, and seems inclined to form an armed neutrality, which may check the maritime triumphs of Great-Britain.

SWITZERLAND.

Under the auspices of Bonaparte, the government of the Helvetic republic has assumed a form resembling, though not exactly agreeing with, the consular system of France. On the 7th of August, the grand council resolved, that the two legislative assemblies should be reduced to one, consisting of forty-three members, and that the new assembly should select seven of its members to form an executive body. The senate made some opposition to these proposals; but the executive saction triumphed over all resistance. Such is the instability of the governments framed by French revolutionists.

THE TOT ALL Y. ...

The French have not prevented the new pope from taking possession of the see of Rome. The Austrians having delivered up to him a great part of the ecclesiastical state; he began, in July, to exercise the functions of sovereignty; and he governs with dignity and moderation.

When the French again obtained possession of the Milanese, they re-organised the Cisalpine republic as a free and independent nation; declared the laws and regulations of the late Austrian government in that country null and void; invited the return of those who had left their homes on account of the unsettled state of affairs; promised to respect private property; and professed an intention of maintaining the catholic religion in the same state in which it was at the time of the first conquest of the country by the modern revolutionists. Some politicians supposed that Bonaparte would restore Piedmont to the king of Sardinia; but he has not shown himself more inclined than the emperor was to do such an act of justice. The chief authority in that country

has been delegated to a committee, or rather to the relident minister of the French republic.

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As foon as it was known in England that proposals had been made to the Turks by the French in Egypt for the fafe retreat of the latter, the British ministry, apprehensive of danger from the return of fuch an army, and wishing that it might become a striking example of disappointed ambition and injustice, fent an order to lord Keith not to ratify any convention of that nature. A dispute arose on this head between general Kleber and lord Keith, the latter declaring that he would not fuffer the French to pass unmolested. The grand vizir, having taken possession of many posts which the enemy had evacuated, demanded the immediate furrender of Cairo; but Kleber, alleging that the English were hostile to the agreement, refused to deprive his endangered army of so important a station, and gave notice of his intention of renewing the war. On the 18th of March, he attacked a body of Turks, and put them to the rout : he then engaged the grand army, and obtained a complete victory.

When it appeared that the convention had been fanctioned by fir Sidney Smith, our court, though not pleafed at his conduct in protecting an enemy whom he might have crushed, sent orders for a ratification of the agreement: Kleber now consented to a revival of the treaty; and it was expected that he and his countrymen would speedily take the benefit of it. But, on the 14th of June, he was assaffinated by a fanatic who had been sent from Gaza for that purpose by the aga of the janizaries. His obsequies were celebrated with great pomp; his merits were blazoned in a funeral oration pronounced by Fourier; and the assassin was justly punished with death. Menou succeeded to the command; and it is supposed that he will endeavour to retain possession of the country.

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